April 2013 Addition

INSTALLATION MANUAL

BAT-S1 (120Kg)
Motorized opening - spring closing

BAT-L1 (250Kg)
Motorized opening - spring closing

ADSF UK LTD
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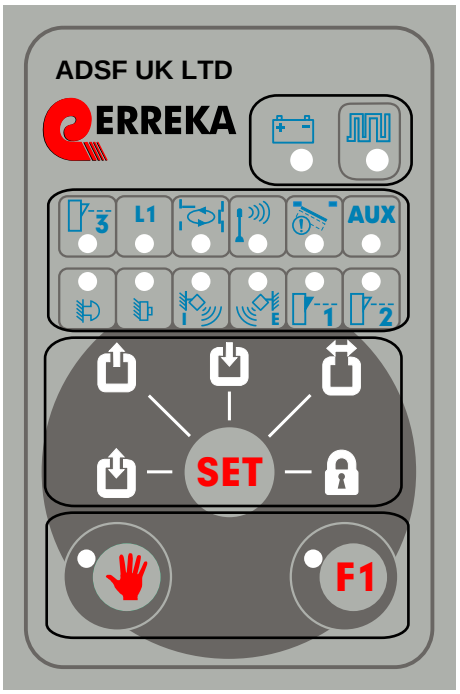
ERREKA
AUTOMATION SYSTEMS / AUTOMATIC DOORS



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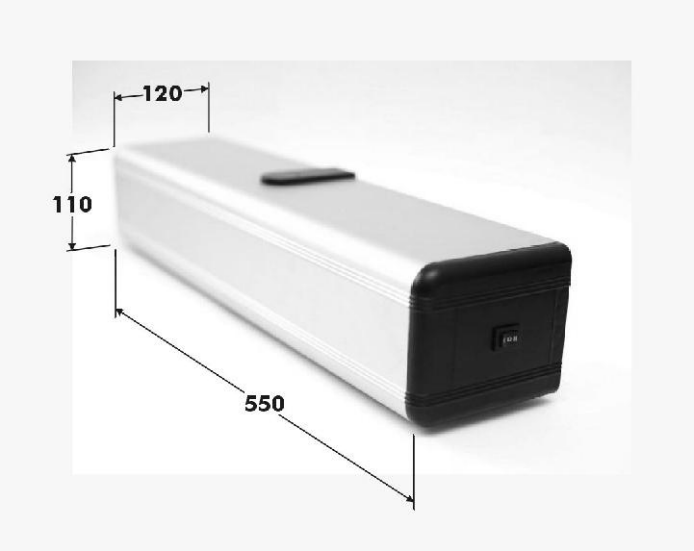
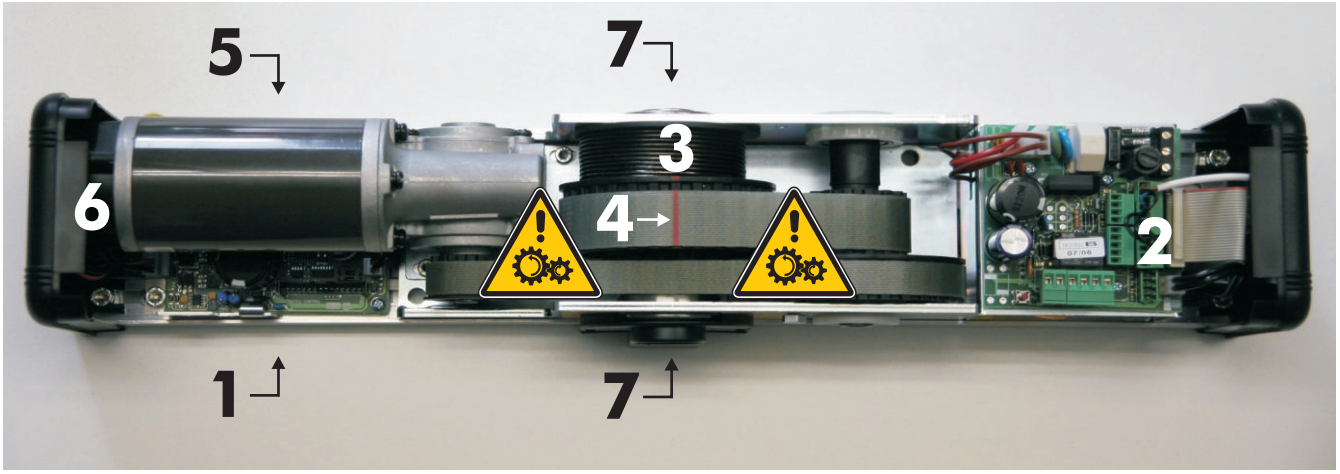
MECHANICAL SECTION



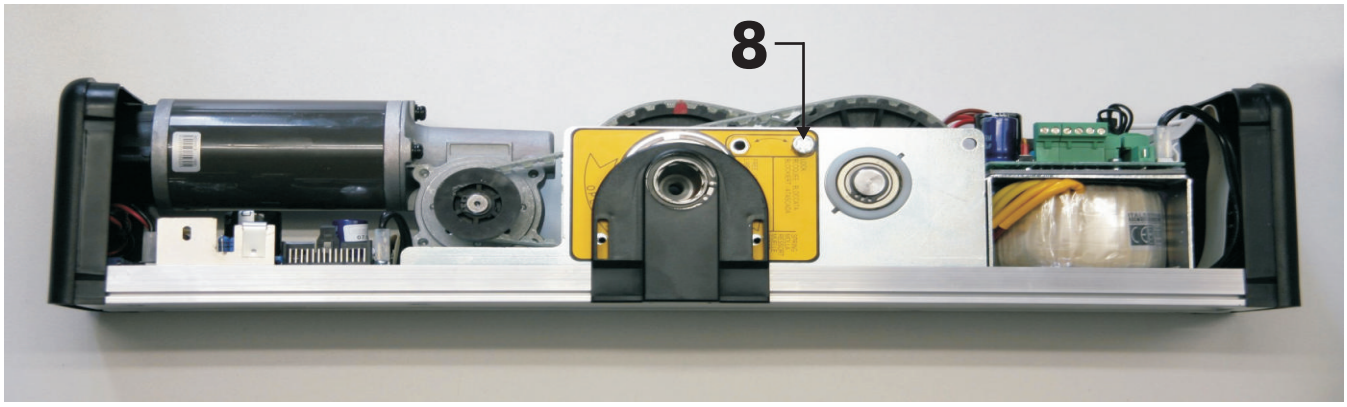
1.0 ACTUATOR COMPONENTS

PLAN VIEW



1-LGN logic card
2-PWN cabling card
3-Spring (BAT-S1 and BAT-L1 models)
4-Spring preload reference line
5-LOGIC TAST board for BATL8 housing
6-Gear motor with ENCODER
7-Projecting pin
8-Spring locking screw (BAT-S1 and BAT-L1 models)

SIDE VIEW



2.0 GENERAL SAFETY RECOMMENDATIONS

Only begin to install the actuator after you have carefully read this instruction manual.
Both the mechanical part and the electrical part must be installed in a perfectly workmanlike manner, in compliance with the current laws in force. Failure to comply with these latter may result in danger hazards for persons or property.
The installer must be a competent person who has been adequately trained. He must check to make sure that the structure on which the actuator is installed is strong and stable. If necessary, structural modifications must be made to strengthen it. The installer must also check that all zones where there is a risk of crushing, dragging, shearing or other dangers, are protected by means of electronic safety devices, safety freeboards or barriers. These devices must be installed in compliance with the current laws and in a perfectly workmanlike way, also in relation to the place of use, the type of use and the operating logic of the product. The forces developed by the complete system as it operates must comply with the current standards and, where this is not possible, the zones affected by these forces must be protected with electronic safety devices. Moreover, dangerous zones must be indicated, as established by the current laws in force.
Before the actuator is connected, make sure that the electricity main possesses characteristics that are compatible with those described in the technical specifications of this manual, and that there is a differential circuit-breaker and adequate protection against overcurrents on the supply side of the system. Remember to turn off the power supply before installing or servicing the actuator and whenever the cover must be opened.
Electrostatic charges can damage the electronic components on the boards. Wear a grounded antistatic bracelet if you must work on the electronic boards. Never place the hands or other parts of the body in moving parts, such as belts, pulleys, gears, etc.
Servicing the actuator is of fundamental importance if the system is to operate correctly and safely. The periodical check of the efficiency of all parts should be carried out every 6 months.
ADSF UK LTD declines all liability for improper installation or use of the product, or for damage deriving from unauthorized modifications to the system. Only use genuine spare parts if replacements or repairs are required. The manufacturer cannot be held liable for the way the doors or gates to be automated are constructed, or for damages caused by failure to build the doors and gates in compliance with good workmanlike techniques. Protection degree IP32 requires that the actuator only be installed inside buildings. ADSF UK LTD declines all liability for damage caused by assembly on the outside, without adequate protections.
Always make sure that the product is in a good condition before it is installed.
This product cannot be installed in places with an explosive atmosphere or in the presence of inflammable fumes or gases.
This product must be disposed of according to the current laws in force at the end of its useful life.
Do not leave parts of the product or its packaging within children's reach, as they could become a danger hazard. Do not stay within the range of the door and do not impede the door movement voluntarily. Do not let the children stay or play within the range of the door.

(ADSF UK LTD) is the trading name of Auto Doors & Shopfronts UK LTD

3.0 MAINTENANCE PROGRAM

Maintenance program for swing door ADSF Erreka.

Each 6 month:

Warning!
Before work on the operator cut main power line.

- Check that all securing screws are well tightened.
- Clean and lubricate moving and sliding components.
- Lubricate closing spring if present.
- Check wiring connections.
- Check that arm connection screw are well tightened.
- Check that the door wing is stable and that the movement is fluent and with no friction from "door open" position up to "door closed" position.
- Check the condition of the hinges and lubricate it.
- Check that speeds, timing, and safety functions are well adjust.
- Check that safety and activation sensor are properly functioning.

Warning!
Any part that appear damaged or worn must be changed.

Make use only of original spare parts; for this purpose check price list.

4.0 INSTRUCTIONS FOR USE

ADSF ERREKA automation is fit for continuous use.
The maximum weight of the usable door wing is in function of the length of the same door wing, of the utilized type of arm and of the operator model.
See tables in chapter 7 according to the used application.
The described characteristics refer to a typical installation and they can be affected in a major way by the variables present in every installation such as: friction, balancing, environmental conditions, etc

5.0 HOW TO PREPARE AND FIX THE ACTUATOR

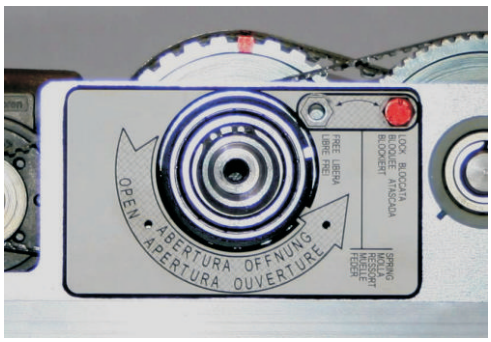
Before fixing the actuator and arms, first make sure that the relative bearing structure is strong and secure, that the door has adequate hinges, that it is not subjected to friction that could prevent the system from operating correctly and that the points where the arm is fixed to the wing are strong enough.
If necessary, these points must be reinforced in an adequate way (additional plates, stronger hinges, etc.).
The door needs a floor stop to keep it open so as to prevent the mechanisms from being damaged if it is pulled violently open by hand. The floor stop is not supplied with the actuator and must be procured by the installer. It is absolutely necessary that, in closed position, the door is provided with a final ledge.

Remove the actuator from its wrapping and make sure that it is in a perfect condition.

Remove the screws that hold the cover in place.

Remove the aluminium cover from its housing by pulling strongly upwards, without pressing on the sides if possible.

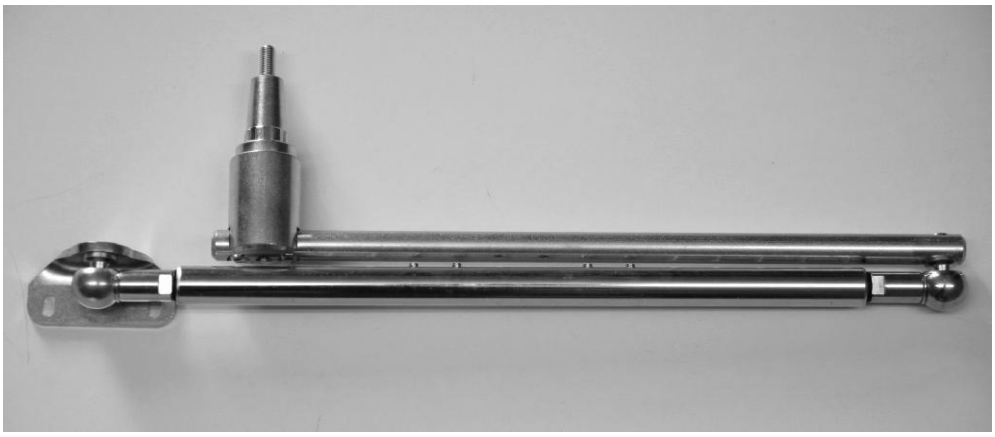
IMPORTANT!
The arm can be connected to either side of the mechanical body of the actuator. This means that the direction of the opening movement can be selected. The connection side of the arm is identified by the label on the mechanical body. This shows the opening direction of the pin. Bear in mind which type of arm (either sliding or articulated) and fixing method (on the wall or wing) will be used.
A pierced closing cap is present on the automation to allow the passage of the arm pin.



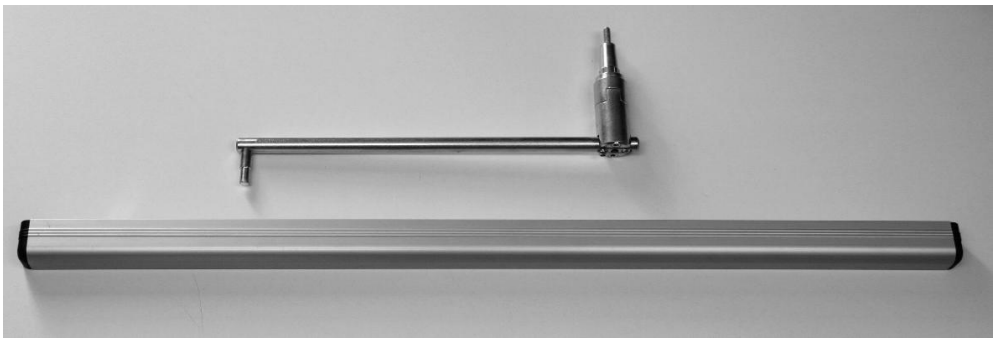
The following pages describe the ways in which the actuator is used, with both the articulated arm and sliding arm.
Diagrams show the limit of use of BAT operators; door wing length in function of weight.

6.0 ARMS

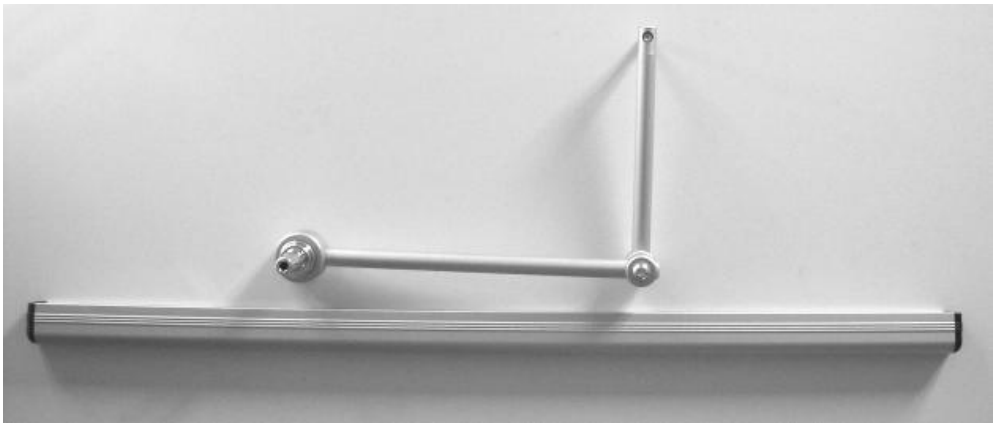
ARTICULATED PUSH ARM L6



STANDARD SLIDING PULL ARM BAT L5

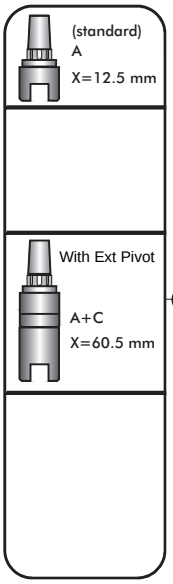


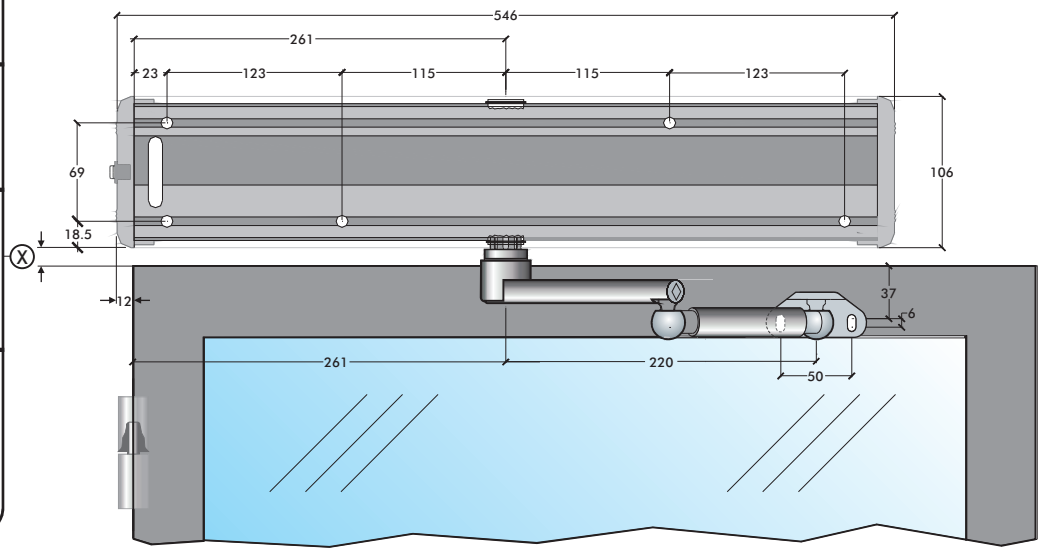
DEEP RECESS 250mm PULL SLIDING ARM BAT S7



ARTICULATE PUSH ARM BATL6

Make use of the articulated arm for automations that open toward the outside as seen from the operator side

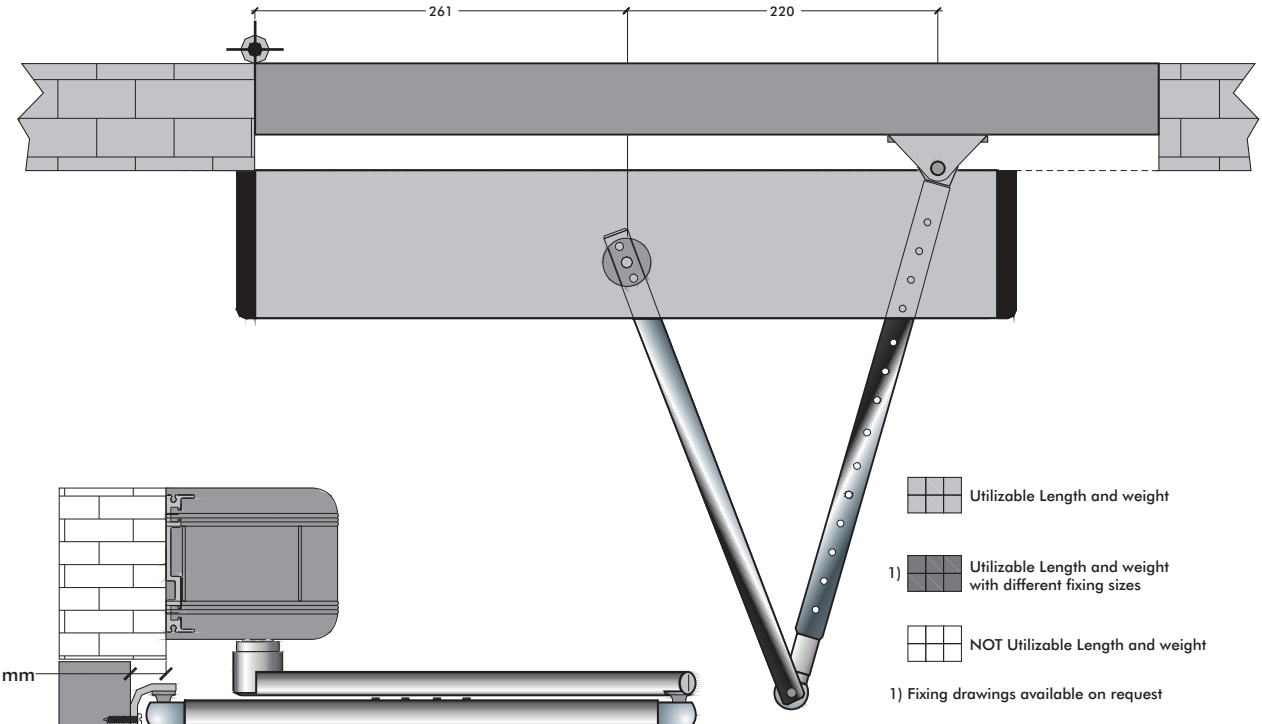


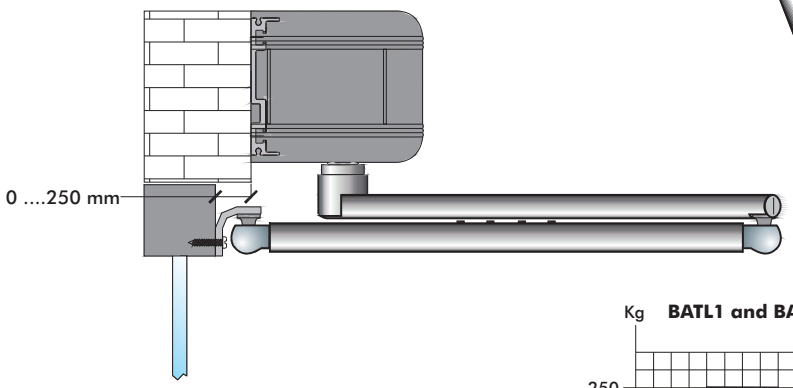


A= Standard Pivot connection

C= 50mm Extension (optional)

For this application consider that the PWN cabling board must be on the door hinge side, in order to ensure the correct direction of the opening movement.



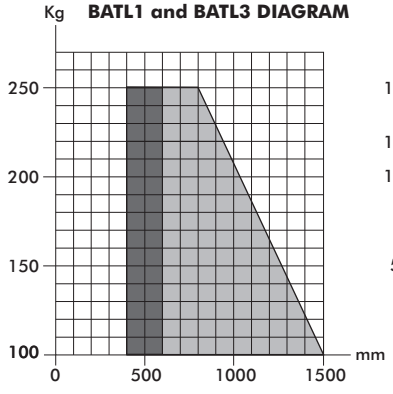


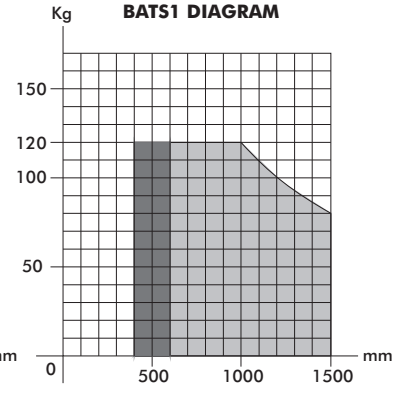
Utilizable Length and weight

1) Utilizable Length and weight with different fixing sizes

NOT Utilizable Length and weight

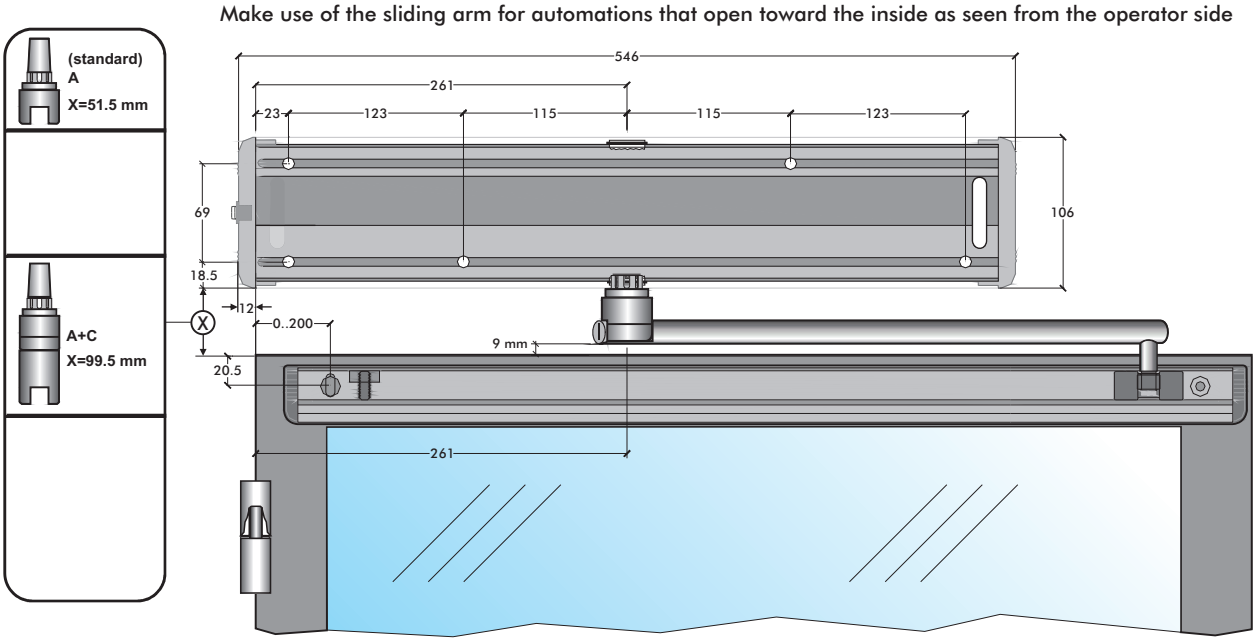
1) Fixing drawings available on request





STANDARD SLIDING PULL ARM BAT L5

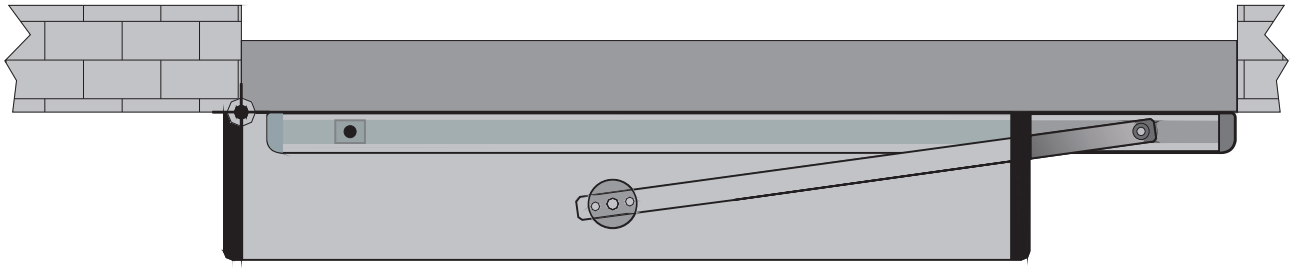
Make use of the sliding arm for automations that open toward the inside as seen from the operator side

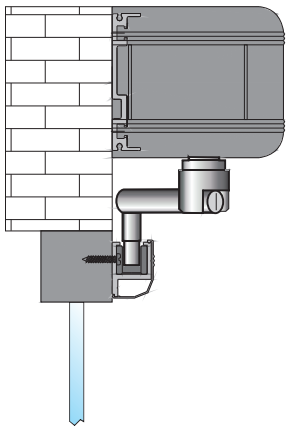


A= Standard Pivot connection

C= 50mm Extension (optional)

For this application consider that the ratiomotor must be on the door hinge side, in order to ensure the correct direction of the opening movement.





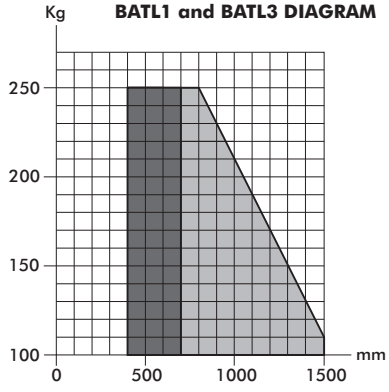
Utilizable Length and weight

1) Utilizable Length and weight with different fixing sizes

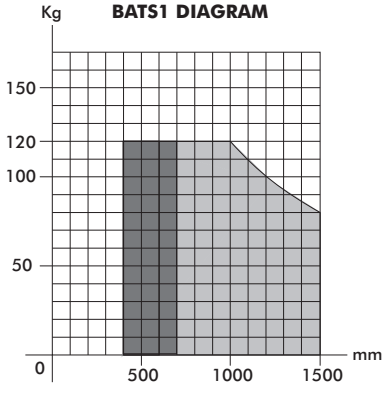
NOT Utilizable Length and weight

1) Fixing drawings available on request

BATL1 and BATL3 DIAGRAM

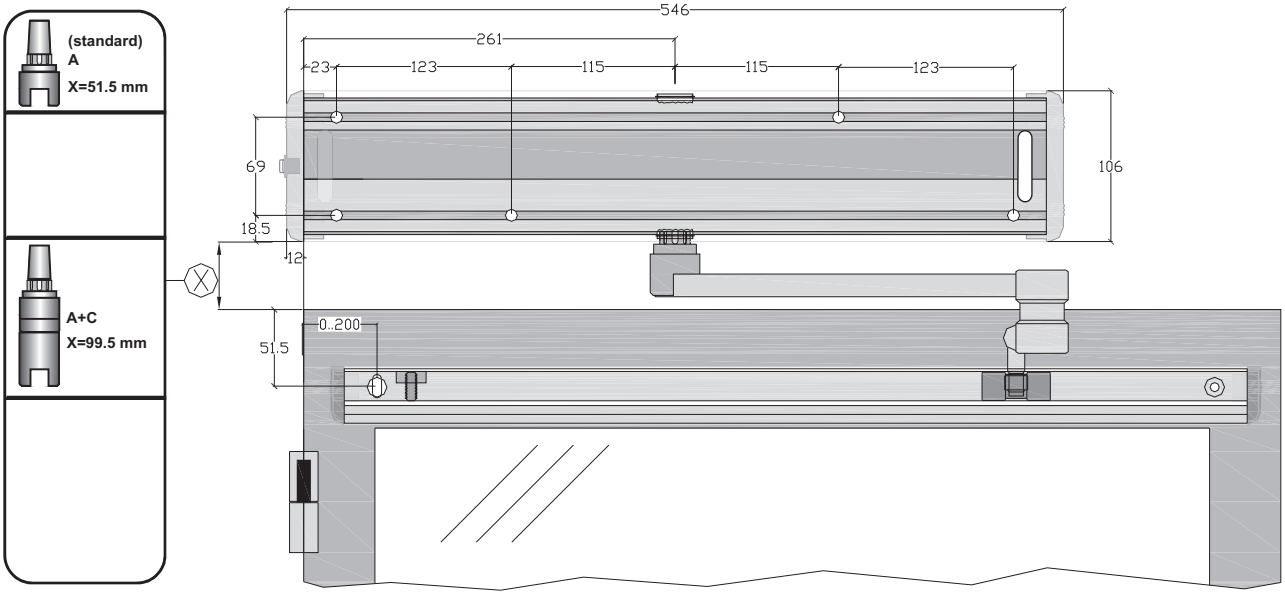


BATS1 DIAGRAM



DEEP RECESS 150mm - 250mm PULL SLIDING ARM

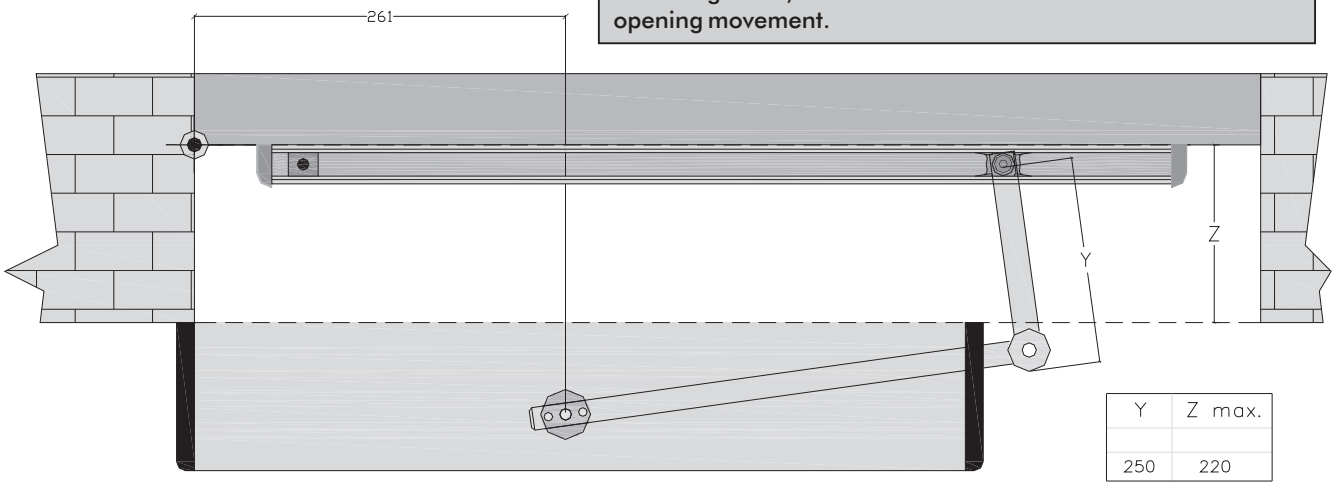
Make use of the bent arm for automations that open toward the inside as seen from the operator side



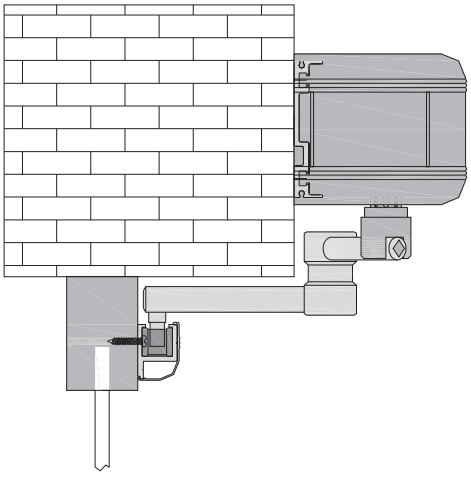
A= Standard Pivot connection

C= 50mm Extension (optional)

For this application consider that the ratiomotor must be on the door hinge side, in order to ensure the correct direction of the opening movement.



Y	Z max.
250	220



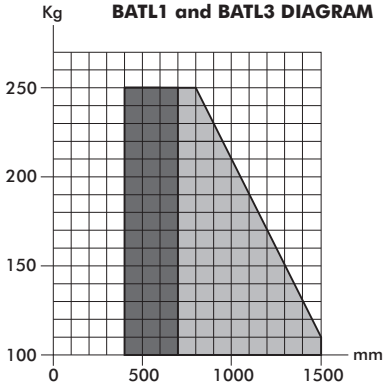
Utilizable Length and weight

1) Utilizable Length and weight with different fixing sizes

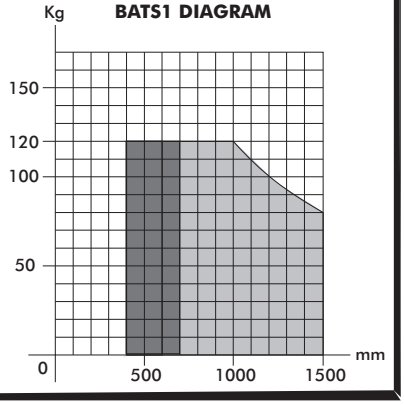
NOT Utilizable Length and weight

1) Fixing drawings available on request

BATL1 and BATL3 DIAGRAM



BATS1 DIAGRAM



8.0 ARM CONNECTION

⚠ **Warning!** When fastening the arms, strictly follow the steps described below, in particular remove the pre-load lock screw only when specified in instructions. The removal of the pre-load lock screw causes the movement of pulleys and gears present in automation. Keep your fingers and other parts of your body clear from the moving devices during this operation!

Only carry out this operation after having disconnected the actuator from the electric power source

After having fixed the actuator and arm as shown in the diagrams on the previous pages (or using the drilling template in scale 1:1 supplied with each arm), connect the arm to the output shaft of the actuator as described in the following steps:

8.1 Choice of the spring load (for BATL1 and BATS1 models)

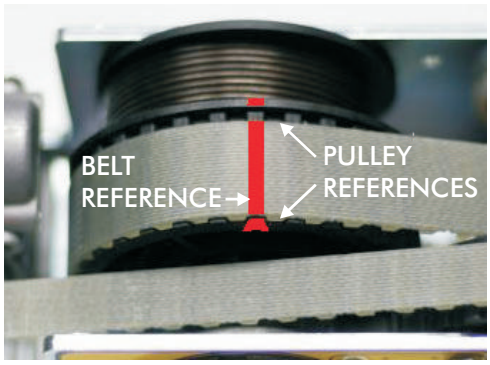
The closing spring will have been preloaded in the factory with a standard value, indicated by the red mark on the belt which matches the red mark on the pulley (see figure alongside). Make sure that this condition has been complied with when the product is installed. If this is not the case, comply with the instructions in chapter 3) of electronic section, in order to bring the preload back within the standard value.

Although the preload is fixed, the power exercised by the spring during the closing phase can be selected in the following way:

Connect the arm to the output shaft with the wing fully open so as to load the spring to the minimum.

Connect the arm to the output shaft with the wing fully closed so as to load the spring to the maximum.

Connection in an intermediate position loads the spring to a proportionally intermediate value.



8.2 How to fix the tapered end of the arm

Make sure that the hole plug has been fitted on the frame.

Connect the tapered arm end to the projecting pin.

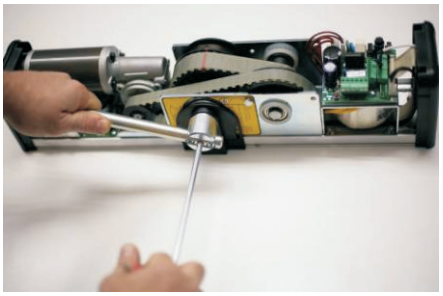
On arm end is located a keying that prevents the arm to slide even if the screw is not properly tightened.

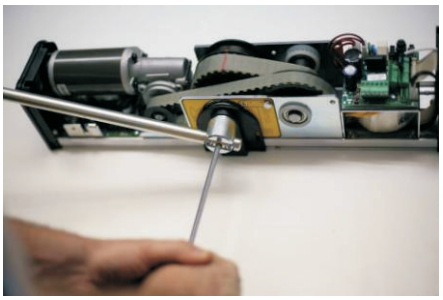
Check that keying end connects to the one on the projecting pin.

In case the chosen inserting position hinders connection, rotate the arm end until a proper insertion point is found (one every 45°).

Strongly tighten the arm fixing screw.

Once installation is complete and after the door has been opened and closed using the motor, always remember to check screw tightening.



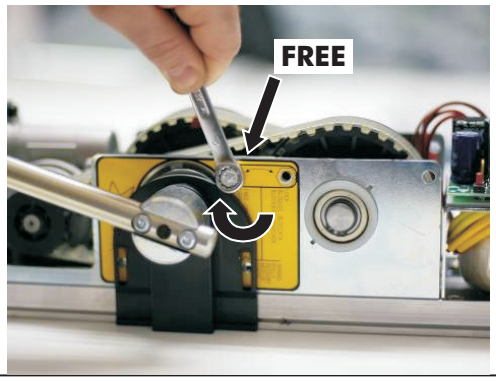


8.3 Spring release (for BATL1 and BATS1 models)

⚠ ***Warning:***

When this operation is carried out, the components and door arm could start to move. Keep your fingers and other parts of the body well away from moving parts during this operation, or keep the wing blocked manually.

Move the spring locking screw from the locked position to the released position, as described in the figure alongside. The door is now free to close by means of the spring. Make sure that the door closes completely even when only open to a few degrees. If this fails to occur, repeat the operations described in this chapter, but increase the closing force as illustrated in section 8.1. Comply with the instructions in the following section to disconnect the arm.

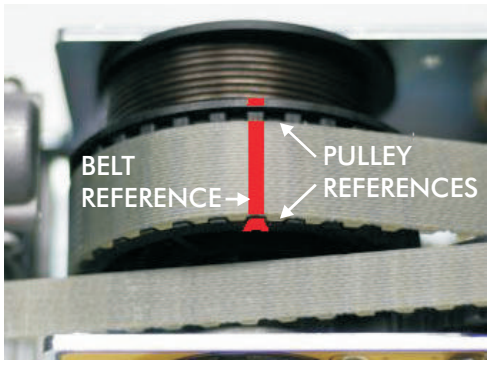


9.0 ARM REMOVAL

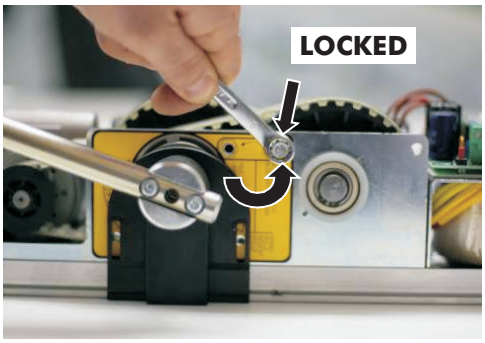
Warning:
When removing the arms, strictly follow the steps described below, in particular remove the tapered pin fastening screw only when specified in instructions. The removal of the tapered pin fastening screw can cause the movement of pulleys and gears present in the automation if the closing spring has not been locked in advance.
Keep your fingers and other parts of your body clear from the moving devices during this operation!

9.1 How to restore the standard preload and lock the spring (for BATL1 and BATS1 models)

Before you remove the arm, you must restore the spring load to its standard value, whereby the red mark on the belt matches the red mark on the pulley (see figure alongside), and lock the spring in this position. To do this, move the door by hand until this condition has been obtained and the red marks on the belt and pulley match.

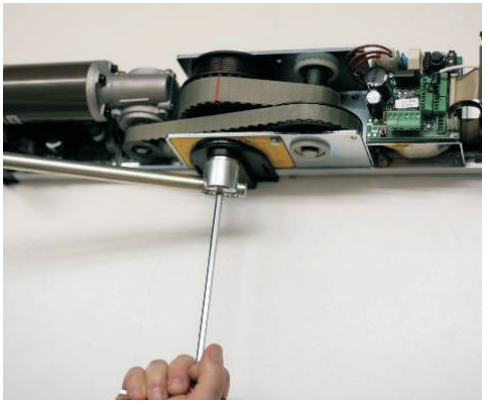


Move the locking screw from the free position to the locked position and make sure that the screw fits into the locking hole in the pulley.



9.2 How to extract the tapering pin

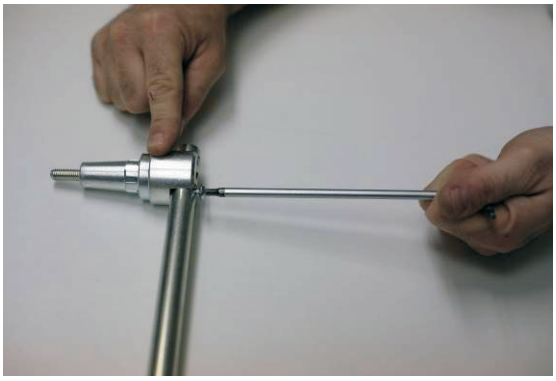
Tighten the release nut upwards until the pin has been completely removed.



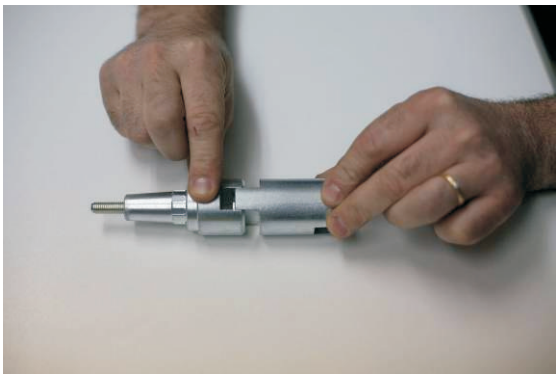
10.0 EXTENSION SHAFT

Where the conical shaft height should be not sufficient for the application, is available an extension shaft (optional) to increase this height.
For available heights refer to paragraph 7.0 (technical drawing)

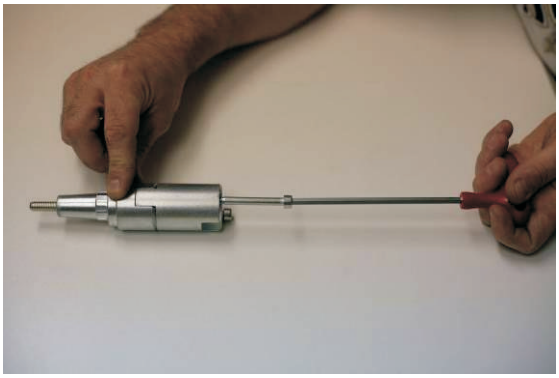
First of all deconnect the arm from the conical connection by unscrew the two head screws.



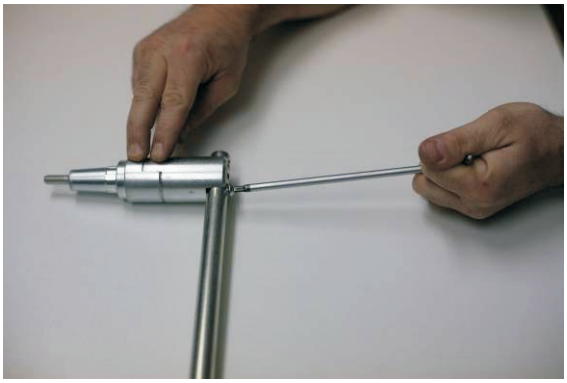
Set the extension shaft in the conical connection like in figure.
Remember to keep the fastening screw inside the tapered connection.



Fix the extension shaft on the conical connection by two screw supplied with the extension.



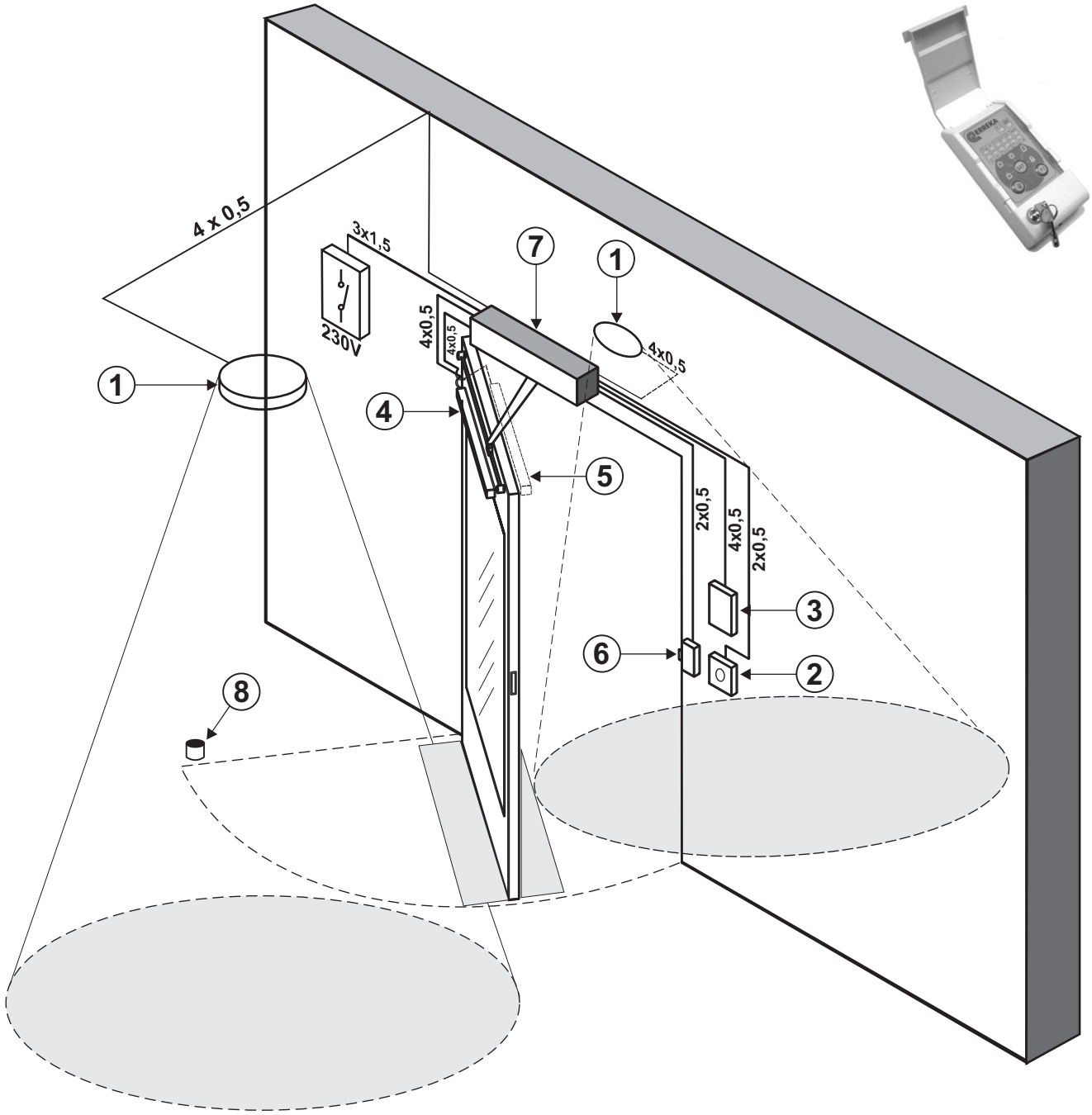
Set the arm on the extension and fix to it by the two original screws.



About arm connection and arm removal refer to previous paragraphs.

ELECTRONIC SECTION

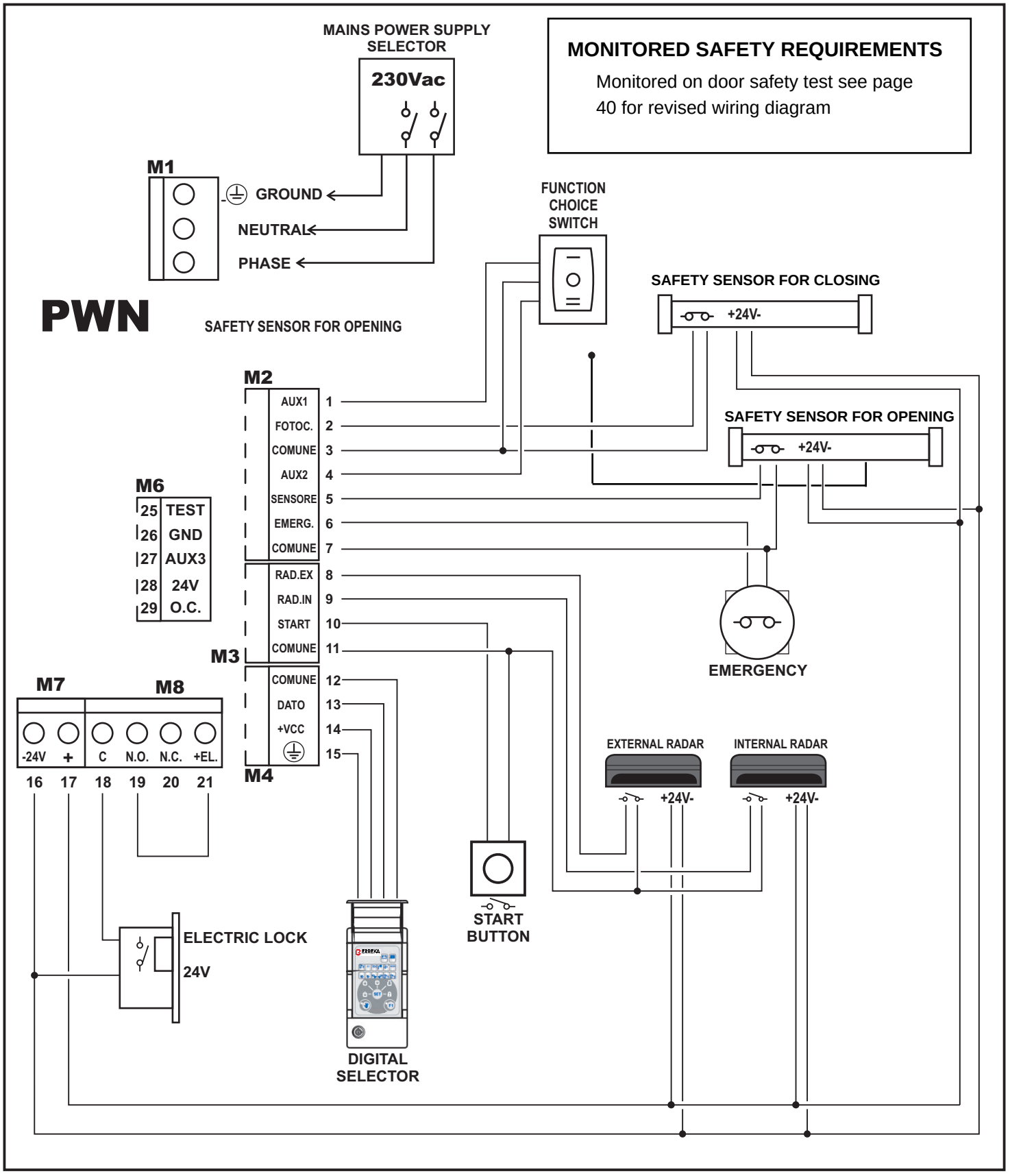
TYPICAL PLANT



NOTE:
The grey part indicates the survey zone of radar and sensors.
The number of cables and the relevant section in mm is indicated for every device.

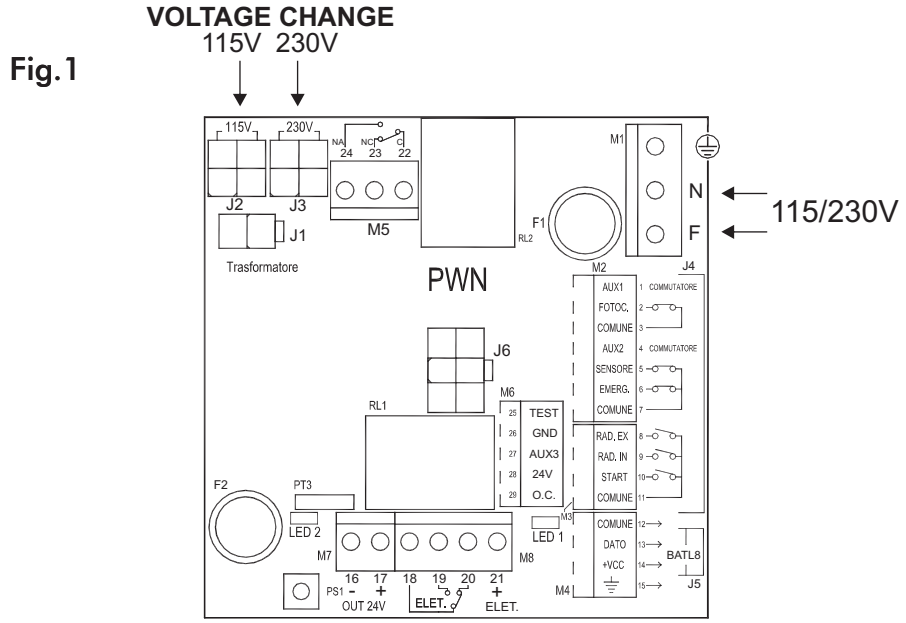
① **OPENING RADAR**
② **EMERGENCY BUTTON**
③ **FUNCTION SELECTOR**
④ **OPENING SAFETY SENSOR**
⑤ **CLOSING SAFETY SENSOR**
⑥ **START BUTTON**
⑦ **BAT OPERATOR**
⑧ **FLOOR STOP**

ELECTRICAL CONNECTIONS



1) ELECTRICAL CONNECTIONS

Fig.1



- On the power supply network foresee an omni-polar switch/selector with contact opening distance at least of 3mm.
- The power supply line must be protected against short circuit and dispersion to ground.
- Separate the 230V power supply line from the very-low voltage line control unit relative to control and safety accessories.

⚠ WARNING!

- In case of 230Vac network voltage, put the 4-pole connector of the transformer primary in the J3 (230V) connector of PWN card (factory setting).

- In case of 115Vac network voltage, put the 4-pole connector of the transformer primary in the J2 (115V) connector of PWN card.

• TERMINAL BOARD M 1

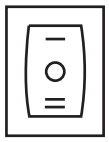
230Vac: phase to terminal F, neutral to terminal N + ground connection ; connect the ground connector ⏚ to the festoon present on the metal plate of the control unit.

The line is protected by 5A fuse F1.

Always check the correspondence of the choice of transformer connector in function of the available network voltage, for the failed compliance with this provision can cause damages to the electronic cards.

• TERMINAL BOARD M2

Terminals 1-3-4 = connection of the FUNCTION SELECTOR switch installed on the side of the device. For operation refer to sect. 5.1



central contact on common terminal 3;

contact made in position | on the 1 AUX1 terminal;

contact made in position | | on the 4 AUX2 terminal;

Disconnect FUNCTION CHOICE switch cables of INTERLOCK SYSTEM and perform electric connection as under sect. 15, for instructions about INTERLOCK function operation.

Terminals 2-3 = N.C. input of the closing safety PHOTOCELL.
Activates during the closing phase and reverses the door's direction.

Terminals 5-7 = N.C. input of the opening safety SENSOR.
The door stops if an obstruction or person is detected, and only starts opening again when the sensor has been released.

Terminals 6-7 = EMERGENCY N.C. input. Opens the door in any condition.

Can also operate in the stepping mode (see sect. 7).

- TERMINAL BOARD M3

Terminals 8-11 = N.O. EXTERNAL RADAR input. Commands the door opening function.
It is excluded by BATL8 digital selector in the *night lock* or *exit only* functions.
It is excluded by the BATL9 mechanical selector in the *night lock* or *exit only* functions.
Can also operate as an opening only input (see sect. 7).

Terminals 9-11 = N.O. INTERNAL RADAR input. Commands the door opening function.
It is inhibited by BATL8 digital selector in the *night lock* or *entrance only* functions.
It is inhibited by the BATL9 mechanical selector in the *night lock* function.
Can also operate as a closing only input (see sect. 7).

Terminals 10-11 = N.O. START input. Commands the door opening function and starts the initial set-up.
It is inhibited by BATL8 digital selector in the *night lock* function.
It is inhibited by the BATL9 mechanical selector in the *night lock* function.
Can also operate in the stepping mode (see sect. 7).

- TERMINAL BOARD M4

Connection to BATL8 digital selector. Use a 4-pole flex (0.5 mm in diameter), maintaining the same signal match between selector and control unit. Maximum cable length 20 meters.
Route the connection cable well away from sources of electrical interference to prevent false displays on the selector.

Terminal 12 = 0 (powering negative)
Terminal 13 = DATA ITEM
Terminal 14 = +12 Vdc (powering positive)
Terminal 15 = G (ground)
Use the 4-pin terminal board in BATL8 selector kit.

WARNING! **The BATL8 selector kit includes the "LOGIC TAST" interface board, which must be fitted into connector J8 (see fig. 2) so as to allow the selector to work with the DIGITAL control unit.**

- TERMINAL BOARDS M6

Terminal 25 = Monitoring test for safety sensors prearranged with test function.
The J2 jumper (test) on the LGN control unit allows to select whether the test signal must be positive P or negative N. The choice depends on the type of sensor in use.

Terminal 29 = OPEN COLLECTOR type signal output O.C., active when door is open or moving, disabled when door is closed; max. load 100mA. The positive signal is taken from terminal 28.
In the INTERLOCK SYSTEM refer to sect. 15 for the electric connection of terminal 29.

- TERMINAL BOARD M7

Terminals 16 (-)-17(+) = 24 Vdc output, max. 20 W, for powering external accessories.
Led L2 indicates that the line is powered a 24V.
The line is protected by polyswitch PT3.

- TERMINAL BOARD M8

Terminals 18-19-20 = Clean exchange contact of relay RL1 (18 COMMON, 19 N.O., 20 N.C.), that can be used to connect an electro-lock.
Take the power from terminals 16 (-) and 21 (+) in the case of a 24 V electro-lock.

Terminals 16 (-) and 21 (+) = output 24Vdc for the powering of the electrolock (24V).
NOTE: Power up the electric lock by passing through the free contact on the RL1 relay to terminals 18-19.

CONNECTOR J1 = connection of power supply transformer secondary.
CONNECTOR J2 = connection of transformer primary with 115 Vac network voltage.
CONNECTOR J3 = connection of transformer primary with 230 Vac network voltage.
CONNECTORS J4-J10 = wiring of signal conductors between electrical connection part PWN and logic part LGN of the electronic control unit.
CONNECTORS J5-J11 = connection of the powering conductors between the parts PWN e LGN of the control unit. The powering line LGN is visualized by the LED L1.
CONNECTOR J6 = connection of battery unit (optional).

2) DESCRIPTION OF LOGIC PART "LGN" OF THE CONTROL UNIT

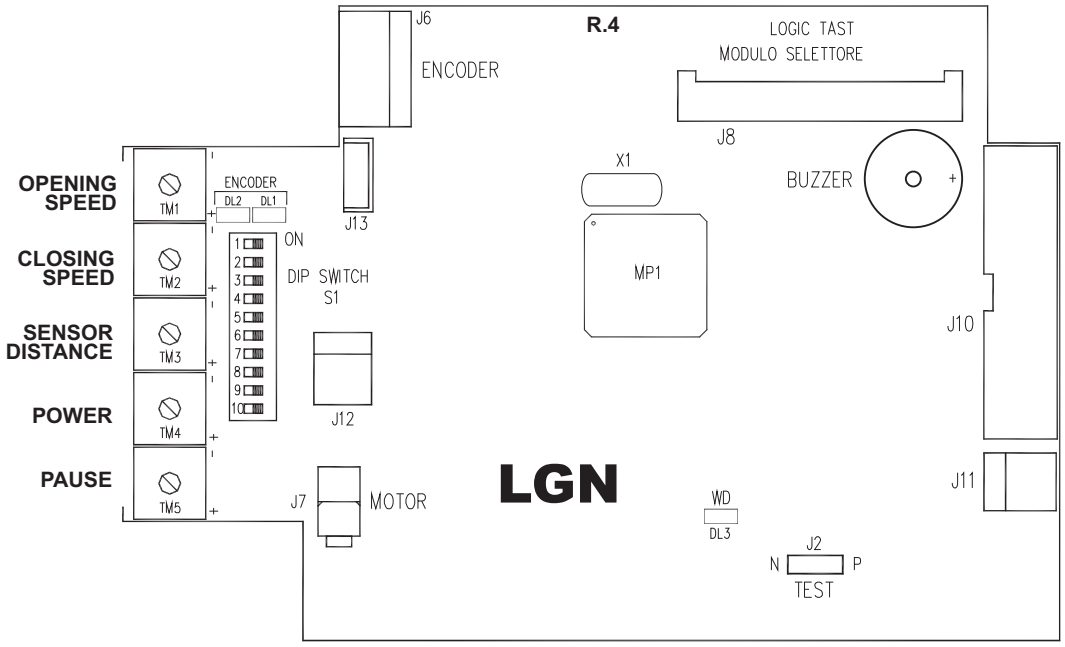


Fig. 2

DL1 DL2 = display the signals from the encoder's sensor.
DL3 = indicates that main microprocessor MP1 is operating correctly by flashing very fast. If the led is off or flashes slowly, this means that the logic board is faulty.

CONNECTOR J6 = encoder connection.
CONNECTOR J7 = motor connection.

CONNECTOR J8 = connection for the LOGIC TAST interface module of BATL8 selector.
CONNECTOR J13 = connection between the MASTER and the SLAVE control unit for two-wing swing door (see sect. 13). Use the MASTER/SLAVE wiring for BAT mod.BATL7.

Dip switch S1 = selects the operating programs of the control unit (see sect. 6).
Potentiometer = calibration of the operating parameters (see sect. 8).

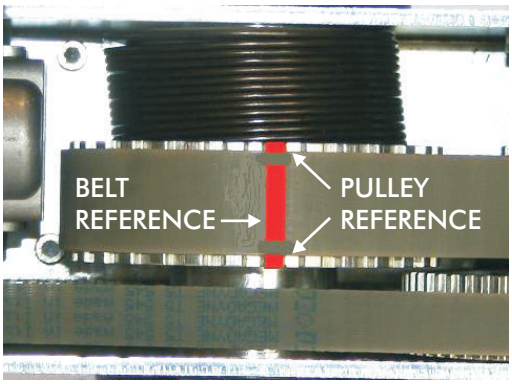
Buzzer = horn.
Mp1 = microprocessor with label indicating the software version.

BRIDGE J12 = it selects the speed of closing of the door in absence of main power:
OPEN BRIDGE = high speed
CLOSED BRIDGE = low speed
JUMPER J2 = selects the type of signal for monitored safety sensors.

3) HOW TO RESET THE SPRING PRELOAD (only for BATL1 and BATS1 versions)

Only read this section if, during the installation phase, the arm is accidentally disconnected without the spring being returned to the standard position and relocked. If this happened, the spring would be relieved well beyond its preset level.

The actuator is supplied with the reclosing spring preloaded with a standard value, whereby the red mark on the belt matches the red mark on the pulley (see figure alongside).
If, during operation, the arm is accidentally disconnected without the spring having been returned and locked in the standard position, this latter will relieve well beyond its standard value.
Strictly comply with the following instructions to return the spring to the correct position:

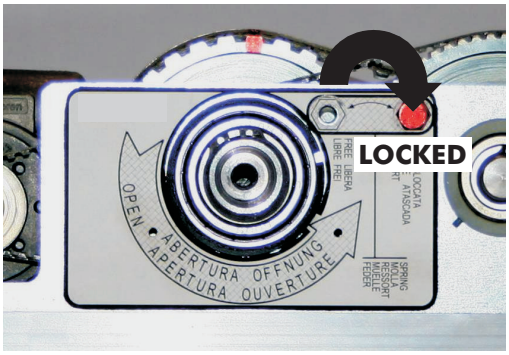


a) Completely disconnect the arm from the projecting pin if this latter is still inserted.
b) Make sure that the FUNCTION SELECTOR switch alongside the actuator is in the central **"0"** position.

   If BATL9 mechanical selector is installed, set the knob to the door free position ✋.

   If BATL8 digital selector is installed, make sure that indicator lights F1 and ✋ are off.

c) Carefully move power limiting potentiometer TM4 to about half of its travel and power the control unit.
d) Set dip-switch 6 of Minidip S1 to the OFF position.
e) Switch off the mains power supply (230V) for about 5 seconds.
f) Turn on the mains power again and wait for an acoustic signal ("BEEP").
g) Set dip-switch 6 of Minidip S1 to the ON position.
h) Switch off the mains power supply (230V) for about 5 seconds.
i) Turn on the mains power again and wait for an acoustic signal ("BEEP""BEEP""BEEP")
j) Set dip-switch 6 of Minidip S1 to the OFF position.
k) Switch off the mains power supply (230V) for about 5 seconds.
l) Turn on the mains power again and wait for an acoustic signal ("BEEP")
m) Press button PS1 (START) on board PWN. The control unit will issue 5 beeps and will begin the spring loading manoeuvre in the constant pressure mode (the movement will stop when the start button is released and will continue when start is pressed again).
n) Bring the spring load back to the standard value shown when the red mark on the belt matches the red mark on the pulley (see figure alongside), then lock the spring in this position.
l) Move the locking screw from the free position to the locked position, making sure that it fits into the locking hole on the pulley.



p) **!! WARNING**, the INITIAL SET-UP will be cancelled after these operations and will therefore have to be made again at the appropriate time, as described in section 4.

4) HOW TO SET THE DEVICE AT WORK (INITIAL SET-UP)

After having fixed the device to the door and loaded the spring (only for the BATL1 and BATS1 versions), move the wing as far as it will go by hand. Make sure that the movement is smooth, fluid, without friction and that it ends with the door fully against an end rabbet.
Proceed with the *initialization* phase (initial set-up). This operation is obligatory as it allows the control unit to acquire the stop points. Strictly comply with the following instructions:

a) Make sure that the device is not powered and that the dip-switches of S1 are in the OFF status.
b) Move dip-switch 6 of S1 to the ON position and the FUNCTION SELECTOR switch to "|" (day functions).
c) Move dip-switch 4 of S1 to the ON position, but only if the electro-lock is installed.
d) Set dip switch 5 of S1 to ON if, in BATL1 and BATS1 versions, the closing by motor thrust shall be added to the spring one.
e) Set the door to the closing status.
f) Powerthe device: the power unit gives 3 beeps, the last two immediately following one another.

WARNING!
During the initial set-up, the door moves with more force than the normal operating conditions. Proceed with care and keep well clear of the door's operating range.

g) Press button PS1 (start input) on board PWN.
h) **BATL1-BATS1 models:** the door will complete a full opening cycle at slow speed.
Once this manoeuvre has terminated, a prolonged BEEP will indicate that the procedure has ended.
Door closing occurs at the end of the pause time.
BATL3 model : the door will push lightly closed and will then proceed with a complete opening / closing cycle at slow speed.
Once the door has closed, a prolonged BEEP will indicate that the procedure has ended.

IMPORTANT: during the initializing phase, there must be no obstructions in the manoeuvring area and the door must not be helped along by hand.

Once the initial set-up has terminated, make an opening manoeuvre by means of a command input and check the movements according to the default settings.

SAFETY: The thrusting force of the door can be checked during the starting phase and at various stages of its movement by listening to the buzzer and the indications given by the warning light L1 of BATL8 digital selector. The effective intensity of this thrusting movement can be checked by obstructing the movement in order to stop the door and reverse its direction.
Potentiometer **TM4** on board LGN can be used to vary the **power** of the door thrusting action and to accurately set the required activation limit.
A brief signal from the buzzer during the starting up phase only, indicates that the thrusting power setting is good.
Set dip-switch 6 of S1 to the OFF position to inhibit the power limiting buzzer.
In any case, at the end of the initial setting procedure and subsequent checks on functioning, set dip 6 of S1 definitively to OFF.
Lastly, select the required functions, set the speed, time settings and distances to optimize the operation of the door to suit personal requirements.

4.1) HOW TO CANCEL A PREVIOUS INITIAL SETUP

If wing travel, door weight or spring loading are changed, the initializing phase of the control unit must be repeated.
Proceed in the following way:

1. *Disconnect the power source, then set dip-switch 6 of S1 to the OFF status and power the control unit.*
2. *After the initial beep, set dip-switch 6 of S1 to the ON status and disconnect the power source.*
3. *Power the control unit, wait for the initial beep-beep-beep and set dip-switch 6 of S1 to the OFF status.*
4. *Shut off the power supply;*
5. ***The previous initial setting will be cancelled;***
6. *Repeat the previous operations from point a) to point g) to enter the initial setup again.*

5) MANUAL FUNCTION SELECTORS

5.1) TOGGLE SELECTOR SWITCH

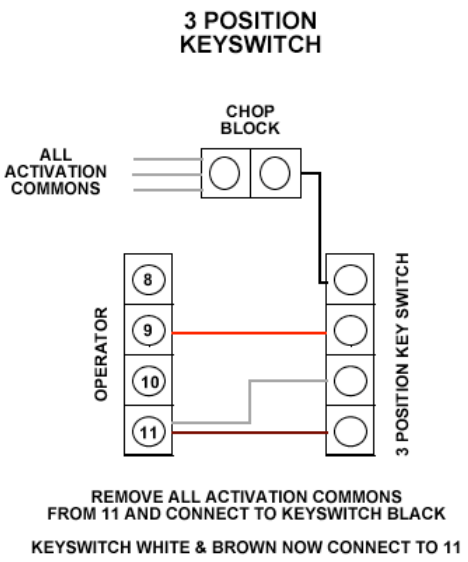
The door operating program can be chose by means of the toggle switch on the side of the operator.

Position | = **DAY FUNCTIONS 2 WAY AUTOMATION**
All the command inputs are activated.

Position O = **DOOR OPERATOR TURNED OFF**
The motor is not powered and the door can be moved by hand.

Position || = **DOOR HOLD OPEN** (with dip-switch 7 of S1 in the ON position).

5.1) 3 POSTION KEY SWITCH (0PTIONAL)



6) FUNCTIONS OF DIP SWITCH S1

Select the functions by means of dip-switch S1 of the control unit or by means of the indicator light of BATL8 selector (consult sect. 9.2 for the settings of BATL8 digital selector).
Selector / Control unit

DIP 1 ON = Push & Go activated. Door opened in the manual mode.
OFF = Push & Go inhibited.

DIP 2 ON = Wind stop activated. Prevents the door from opening accidentally in a draught
OFF = Wind stop inhibited.

DIP 3 ON = It enables the cyclic function (repeated opening and closing operations).
Start the cyclic function with a START pulse; in the first 4 opening-closing cycles the actions of control and safety inputs are not taken into consideration.
OFF = cyclic function excluded.

DIP 4 ON = electro-lock output activated (see sect.8 for a description of pontentiometers TM9 & TM10 wich allow operation with the electro-lock to be optimized).
OFF = electro-lock output inhibited.

(only in BATL1-BATS1 models)

DIP 5 ON = MOTORIZED OPENING, SPRING CLOSING WITH MOTOR.
We suggest to make use of this function for the doors that, when closing, can be submitted to the action of wind and in all those cases when the only push of the spring could not ensure the complete closing of the door.
OFF = MOTORIZED OPENING, CLOSING BY SPRING ONLY.

DIP 6 ON = activated the **initial set-up** cycle (see sect.4);
allows power limitation to be indicated by the buzzer.
OFF= inhibits the buzzer warning for power limitation.
Set the dip to OFF at the end of the initial setting and in the normal operation conditions of the door.

DIP 7 ON = door open condition with function selector in the "||" position.
OFF = night lock condition with function selector in the "||" position.
In the INTERLOCK SYSTEM, refer to sect. 15 for the function of this dip switch.

DIP 8 ON = courtesy function for the disabled. See section 10 for a description of operation.
OFF= courtesy function inhibited

DIP 9 ON = if the operation program NIGHT LOCK is selected, the door opens and remains open 10" before closing again.
OFF = if the operation program NIGHT LOCK is selected, the door does not open.
In NIGHT LOCK, the door can only be opened with the EMERGENCY input, or with the SPYCO radio control.

DIP 10 ON = automatically increases the pause time if the door cannot close on account of the high flow of persons
OFF = constant pause time.

DIP 11 (can only be selected with BATL8 digital selector)

ON = work program selected by means of BATL8 digital selector (see sect. 9).
OFF =work program selected by means of the function selector switch (see sect. 5.1) or the manual selector (see sect. 5.2).

DIP 12 (can only be selected with BATL8 digital selector)

ON = enables regulation of the functions (dip-switch S1) and potentiometers (from TM1 to TM5) by means of BATL8 digital selector.
OFF = enables regulation of the functions (dip-switch S1) and potentiometers (from TM1 to TM5) by means of control unit LGN.

All the adjustments to dipswitch S2, potentiometers TM6, TM7, TM8, TM9, TM10 and to the TECHNICAL MENU are made by meas of BATL8 digital selector alone.

7) DIP SWITCH S2 FUNCTIONS (only via BATL8 digital selector)

Set up the functions by means of the indicator light of BATL8 digital selector (see sect.9.2).

DIP 1 ON = STEPPING function activated. One pulse opens and a seconde pulse closes
The START and EMERGENCY inputs anre enabled.

DIP 1 OFF = STEPPING function inhibited.

DIP 2 ON = ELECTRO-LOCK RELEASE WITH FREE DOOR ENABLED.
Consult sect. 11 for a description of this operating mode.

OFF = ELECTRO-LOCK RELEASE WITH FREE DOOR DISABLED

DIP 3 (only activated if DIP 4 = ON)
ON = PEDESTRIAN OPENING WITH SELECTOR ON (see sect.14)

OFF = PEDESTRIAN OPENING WITH SELECTOR ON (see sect.14)

DIP 4 ON = PEDESTRIAN OPENING ENABLED (see sect.14)

OFF = PEDESTRIAN OPENING INHIBITED (see sect.14)

DIP5 = DELAY ON STARTING FOR TWO-WING SWING DOOR (see sect.13).
Adjustment required if wings overlap.

ON = WING DELAY ACTIVATED IN BOTH OPENING AND CLOSING PHASES.
The MASTER/SLAVE units operate with a preset wing delay time which can be changed by means of BATL8 digital selector, accessing the TECHNICAL MENU and modifying the parameters in points 13 (wing delay on opening) and 14 (wing delay on closing). Consider that the MASTER unit is delayed, while the SLAVE unit is delayed on opening.

OFF = WING DELAY INHIBITED with wings starting at the same time.

DIP6 ON = control unit set up as SLAVE (see sect. 13).
OFF = control unit set up as MASTER (see sect. 13).

DIP7 ON = "DOUBLE WING DOOR" OPERATING MODE (see sect. 13).
OFF = "SINGLE WING" OPERATING MODE.

DIP8 ON = TEST FOR SAFETY PHOTOCELL WHILE CLOSING ON (for pre-arranged sensors only).
see paragraph 21 "Sensor test".
OFF = TEST FOR SAFETY PHOTOCELL WHILE CLOSING OFF.

DIP9 ON = TEST FOR SAFETY PHOTOCELL WHILE OPENING ON (for pre-arranged sensors only).
see paragraph 21 "Sensor test".
OFF = TEST FOR SAFETY PHOTOCELL WHILE OPENING OFF.

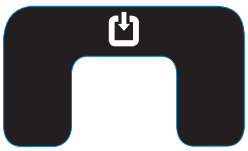
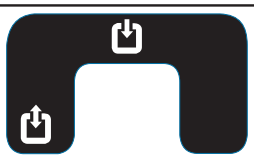
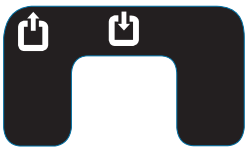
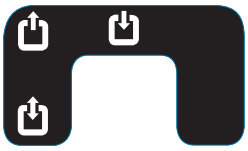
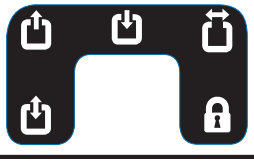
DIP 10 ON = The INTERNAL RADAR input controls closing only.
The EXTERNAL RADAR input controls opening only.
After an opening controlled by the EXTERNAL RADAR, closing is not automatic but occurs thanks to the intervention of the INTERNAL RADAR.
OFF = Standard operation of the radar inputs.

DIP 11 ON = Default values of the TECHNICAL MENU restored (see sect.19 ADVANCED FUNCTIONS - TECHNICAL MENU)

DIP 12 ON = It enables the INTERLOCK function (see sect. 15)

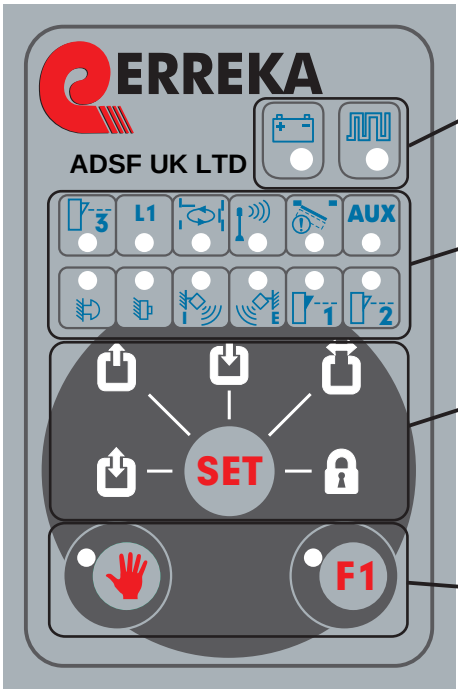
DIP 12 OFF = It excludes the INTERLOCK function.

8) POTENTIOMETER ADJUSTMENTS

VIA CONTROL UNIT	FROM BATL8 DIGITAL SELECTOR Note: If the program symbol is of a light colour, the led is on	WORK PARAMETERS
TM1		Opening speed Increasing the value, the opening speed is increased too.
TM2		Closing speed Increasing the value, the closing speed is increased too.
TM3		Safety sensor inhibiting distance in opening mode Increasing the value, the sensor survey is excluded from the last part of the opening stroke.
TM4		Pushing thrust limitation At maximum value, the maximum thrust is obtained.
TM5		Pause time - max 20" - min. 0
TM6		Closing upkeep voltage Increasing the value, the motor thrust is increased, in order to keep the door close to the closing edge.
TM7		Intensity of the Wind stop force with closed door. Increasing the value, the motor force is increased, in order to oppose the wind thrust with closed door.
TM8		Distance of activation of Push & Go from closed door.
TM9		Intensity of final thrust in last closing section to make it easier to fit into electro-lock Increasing the value the final speed in the last closing section is increased, in order to help the coupling of the electric lock.
TM10		Power of 0.5 sec stroke on closing before opening to release electro-lock. At the minimum value, the closing stroke is inhibited and the electro-lock is activated at the same time as the motor starts.
		Remote control auto-learning (memorizing) Push the button on the remote control to save the code. The top row of input leds will flash simultaneously by way of confirmation.

IMPORTANT: Adjustments that cannot be carried out by the control unit owing to the lack of further potentiometers can only be made via BATL8 digital selector.
Consult sect. 9.2 for instructions about how to regulate the described parameters via BATL8 digital selector.

9) BATL8 DIGITAL SELECTOR



If the led is permanently on or flashing, it means that there is no communication between the selector and the control unit.
In this case, check the electrical connection

Make sure that the LOGIC TAST module is installed.

Input status indication.
When on, the led indicates that the input is engaged.

Work program selection: press the SET button to change the type of program.
Clockwise, traffic in 2 directions, exit only, entrance only, doors always open, night lock

Press the key (green led on) to activate the door free function.
The motor is not powered and the door can be moved by hand.

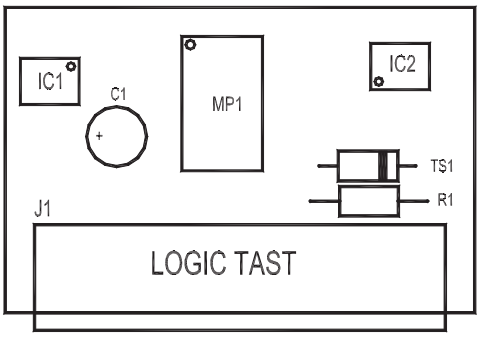
Press the key F1 (green led on) to inhibit the stepping function activated by dip-switch DIP 1 of S2.

FREE FUNCTIONS

FUNCTIONS BLOCKED

**The work program can be changed by pressing SET.
The key allows to lock the function choice; in FREE functions it is possible to set the desired program with the SET button. In LOCKED functions the SET button is not active and the operation program corresponds to the last one set.
The key allows also to have access to the remote programming menu from BATL8 selector (see paragraph 9.2).**

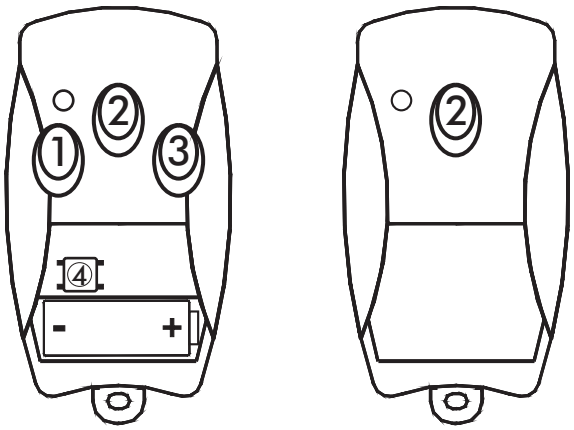
LOGIC TAST



The package with BATL8 digital selector also contains the LOGIC TAST electronic board, which is the interface module required for exchanging data between BATL8 digital selector and the electronic control unit.
The LOGIC TAST board must be fitted into connector J8 of the LGN part of the electronic control unit (see fig.2 in sect. 2).
A 4-pin terminal board in the package is used for the electrical connection between BATL8 digital selector and terminal board M4 of the PWN part of the electronic control unit.

9.1) THE REMOTE CONTROL

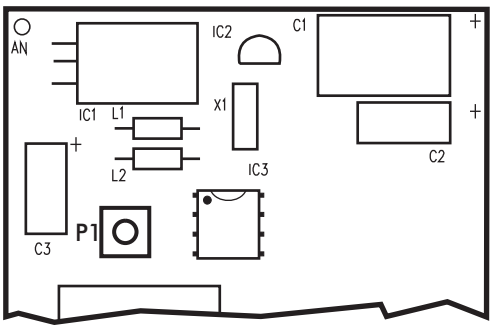
A radio receiver is built into BATL8 digital selector. It can be used to control Label's SPYCO series remote controls with both one and three channels.
SPYCO remote controls transmit a rolling code (the code changes on each transmission according to a preset algorythm) and render the system immune to attempts to clone the code. The standard memory can store up to 250 remote controls (each remote control has a different code), while the optional memory can store 1000.
Refer to the drawing on the right, which illustrates the buttons.



How to cancel all the codes

Comply with the following instructions to clear the memory of the receiver:

A) Temporarily disconnect the selector from the electric power source.
B) Press internal button P1 on the selector's circuit and keep it depressed.
C) Connect the selector to the electric power source while keeping button P1 depressed.
D) The leds of the inputs will now start to show that the memory cells are being cancelled. Release button P1.
E) Once all the cells have been cancelled, the selector will operate in the normal way.



How to memorize a remote control

Comply with the following instructions to memorize a remote control:

A) Access the remote programming mode as described in chapter 9.2 and go to the remote control autolearning function (see table in sect. 8).

B) Press button (2) on the remote control. The upper row of input leds will flash to confirm that programming has taken place.

C) Quit the remote programming mode without memorizing as explained in chapter 9.2 from point Z onwards).

Use of the remote control

Once the remote control has been memorized, the door can be opened with button (2) of the SPYCO remote control.
The pulse from the remote control is signalled by the relative led on the selector and allows the door to be opened even in the night lock mode .

9.2) Adjusting the device with remote programming via BATL8 selector

For the remote programming of DIP S1 and of potentiometers from TM1 to TM5 to become operative, **DIP12 of S1 must be set to the ON position.**
The programming of all other parameters does not depend on DIP 12 of S1.
Comply with the following instructions to access the programming mode:

A) Move the selector's locking key to the **functions locked** position.

B) Press the selector's SET (SET) button and keep it depressed

C) Move the locking key back to the **functions free** position.

D) Release the SET button (SET).

E) The yellow leds of the inputs will come on from left to right in sequence, to indicate that the data are being loaded (UPLOAD).

F) Once the UPLOAD phase has terminated, the red BATTERY led and the yellow led will come on.

G) The battery led shows that work is being carried out on DIP-SWITCH S1 while the yellow led indicates:
G1) that DIP1 of S1 is in the ON position issues an **unbroken light**
G2) that DIP1 of S1 is in the OFF position if the led **flashes**.

H) Press the door free button to change the status of the DIP-SWITCH (ON - OFF) .

I) Press button F1 to move to DIP2 of S1 (F1)

L) Repeat the last operation to move to the other DIP-SWITCHES of S1.

M) Refer to sections 6 and 7 for the meaning of the DIP-SWITCHES.

N) To operate on DIP-SWITCH S2, press the SET (SET) button. The LINE led will come on.

O) Repeat the operations as given for MINIDIP S1 to select and change the status of the individual DIP-SWITCHES.

P) Press the SET button (SET) to move to POTENTIOMETER TM1. The 2-WAY traffic led will come on .

Q) When the potentiometers are being used, the input leds form a scale to indicate the set value.

R) To change the value of the selected potentiometer, press:
R1) the DOOR FREE button to **decrease the value**.
R2) the F1 button (F1) to **increase the value.**
S) Press the SET button (SET) to move to POTENTIOMETER TM2.

T) Repeat this last operation to move to the other potentiometers.

U) Refer to section 8 for the meaning of the potentiometers.

V) Comply with the following instructions to quit the programming phase and **memorize** the changed values:
V1) Move the selector's locking key to the functions locked position
V2) Press the selector's SET button (SET) and keep it depressed .
V3) Move the locking key back to the functions free position .
V4) Release the SET button (SET).
V5) The leds of the inputs will come on **from right to left** in sequence to indicate **DOWNLOAD**.
V6) The control unit will issue 2 beeps once the **DOWNLOAD** phase has terminated
V7) The selector will set back to the normal operating mode.

Z) Comply with the following instructions to quit the programming phase and **without memorizing** the changed values
Z1) Move the selector's locking key to the functions locked position .
Z2) Move the locking key back to the functions free position .
Z3) The selector returns on normal operation and the control unit issues one single beep.

10) COURTESY MODE FOR THE DISABLED

- Move dipswitch 8 of S1 to the ON position to enable the courtesy function for disabled persons.
  Two inputs of the operator unit, i.e. START and EMERGENCY, are dedicated to the use of special opening buttons able to be used by disabled persons.
- After an opening phase has been activated by a disabled person by means of the START or EMERGENCY input, the door automatically closes again after the pause time set by potentiometer TM5 and the closing safety photocell input activates.
  If the closing safety photocell is obscured in the last section of the opening manoeuvre or during the door open pause time whilst a disabled person is crossing the threshold, the pause time is reduced to three seconds (even if a longer time has been selected) and the door consequently closes again.
- If the door is opened by manually pushing it with the push & go function enabled (DIP 1 of S1 ON), or by means of the internal or external radar, if used, the door will immediately close again with a pause time at its minimum value (even though potentiometer TM5 has been set for a longer time), while the closing safety photocell input will not be activated.

13) SWING DOOR WITH TWO WINGS

A door with two wings can be controlled by using two BAT actuators.
Carefully consult the drawings in the "MECHANICAL SECTION" at the beginning of this manual in order to establish the fixing dimensions, opening direction of the wing and the maximum weight allowed by the wing length. The system comprises a main control unit, which must be configured as the MASTER and whose task is to handle the general operation of the door, and a second control unit configured as the SLAVE, which receives orders and information from the MASTER.

If one of the door wings overlaps the other during the closing phase, the actuator configured as the MASTER should be applied to the wing that overlaps the other (i.e. the wing that is the first to open and the last to close).

13.1) ELECTRICAL CONNECTIONS (see indicative diagram in figure 3)

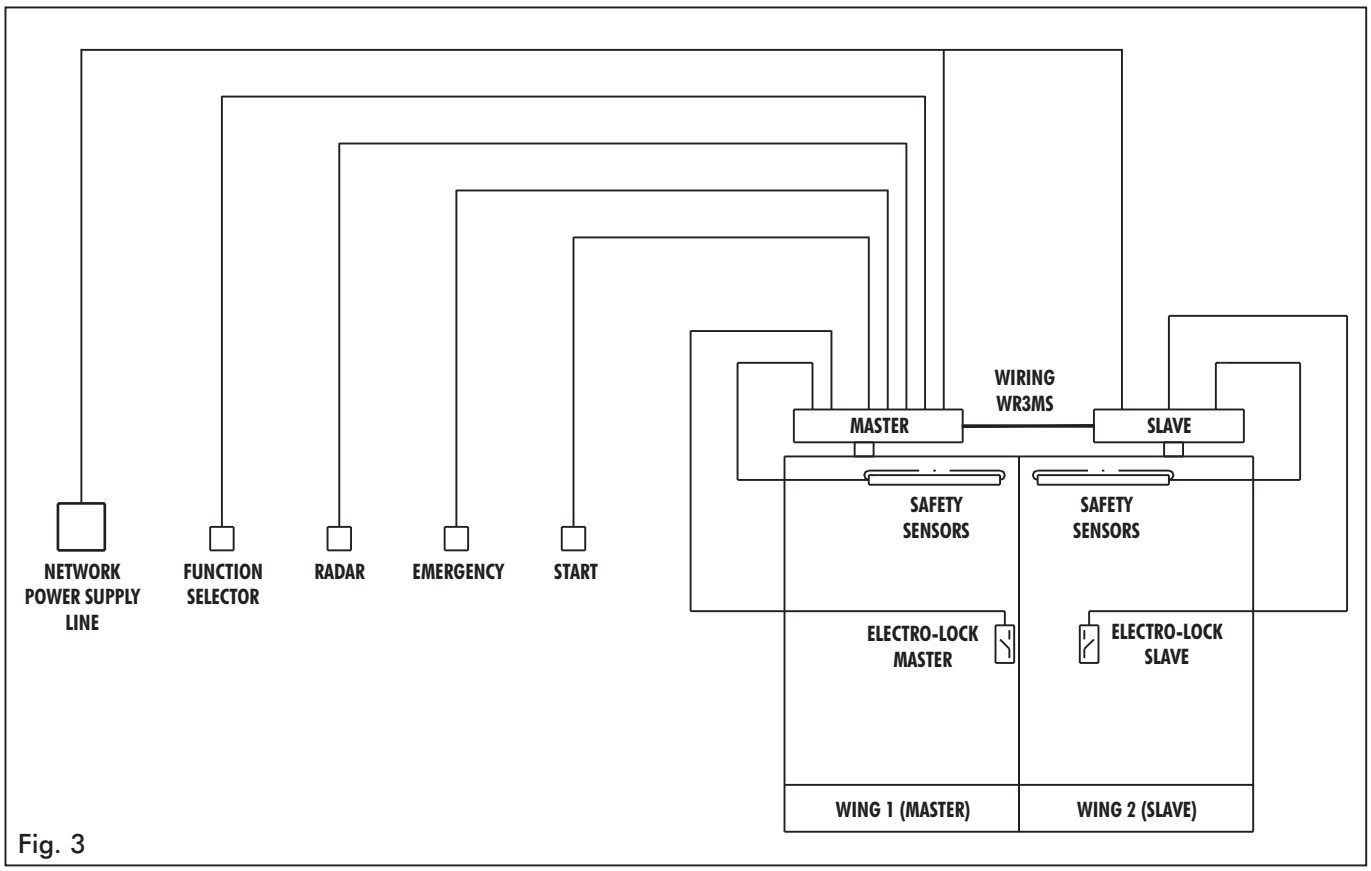


Fig. 3

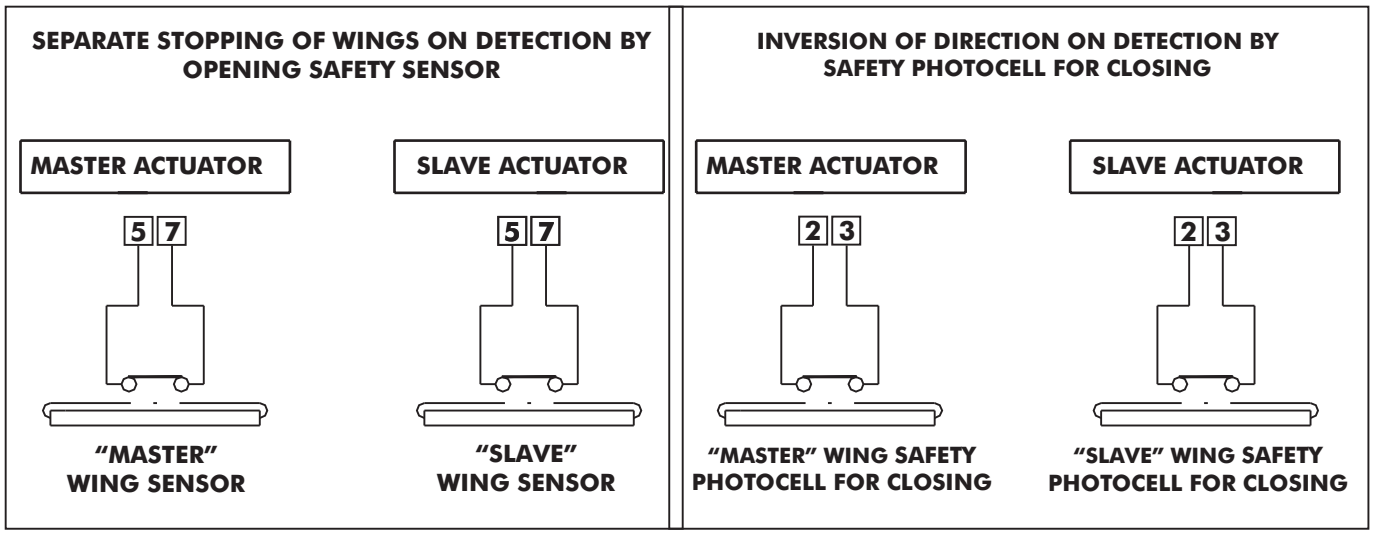


Fig. 4a Fig. 4b

13.1.1) ACTUATOR WITH MASTER CONTROL UNIT

Make the electrical connections to the MASTER control unit as described in sect. 1 of this manual, considering that all the control and safety inputs (from terminal 1 to terminal 11) are activated on the MASTER actuator. When it comes to the opening safety sensor, remember that the MASTER and SLAVE control units handle the detection phase in a separate way (see fig. 4a). This means that the safety sensor applied to the wing controlled by the MASTER actuator must be connected between terminals 5-7 of the MASTER control unit and its activation during opening will stop MASTER wing only. Safety photocell for closing activation (see fig.4b) forces both wings to reverse their movement.
The electro-lock must be connected to the MASTER control unit.
Only the electro-lock that concerns the wing controlled by the master actuator should be connected to the MASTER control unit if the door has a double electro-lock to block each wing individually.
Mechanical program selector BATL9 (see section 5.2) should be connected to the MASTER control unit.
BATL8 digital selector (see section 9) must be connected to the MASTER control unit so that the required operating program can be selected.

13.1.2) ACTUATOR WITH SLAVE CONTROL UNIT

Power the SLAVE control unit via terminal board M1.
Opening safety sensor installed on the wing controlled by the SLAVE actuator must be connected between terminals 5-7 of the SLAVE control unit and its activation during opening will stop SLAVE wing only.
Safety photocell for closing activation (see fig.4b) forces both wings to reverse their movement.
Only connect the electro-lock that concerns the wing controlled by the SLAVE actuator if the door has a double electro-lock that blocks each wing individually.

IMPORTANT!
The MASTER and SLAVE control units must be connected together with the mod.WR3MS wiring for communication and data exchange purposes. Connect the two terminals at the end of the cable to the connectors marked J13 on the control units (logic part LGN).

13.2) HOW TO INSTALL THE DEVICE

Strictly comply with the instructions given below in order to install the device in the correct way:

A) Fix the two operators actuators in compliance with the dimensions and wing opening direction shown in the drawings in the mechanical section of this manual.
B) To effect the connection of the arms choose the ideal load of the spring depending on the leaf characteristics as described in the paragraph 8.0 of the mechanical part.
C) Make the initial set-up as described in sect. 4. Proceed separately, first with the actuator to be configured as the MASTER and then with the SLAVE. If one of the door wings overlaps the other during the closing phase, keep the wing controlled by the MASTER actuator open at the end of the initial set-up so as to allow the wing controlled by the SLAVE actuator to move freely during its initial set-up.
D) Close both wings and select the functions suited to the operating mode for double-wing doors. The relative instructions are given in the next chapter.

13.3) FUNCTIONS AND ADJUSTMENTS

After installing the device and completing the initial set-up, proceed with the adjustments by selecting the parameters required to synchronize the system.

13.3.1) HOW TO ADJUST THE MASTER ACTUATOR

A) Connect BATL8 digital selector to the MASTER control unit without forgetting to fit the LOGIC TAST module into connector J8 of the control unit.
B) Access the programming mode via BATL8 digital selector (the procedure is explained in sect. 9.2), then go to dipswitch S2 (see sect. 7).
C) If the door wing must be delayed on starting (overlapping wings), set dipswitch 5 ON, otherwise set dipswitch 5 OFF if the wings must both move at the same time.
D) Set dipswitch 6 OFF to configure the control unit as the MASTER.
E) Set dipswitch 7 ON to enable the control unit to operate in the "DOUBLE WING DOOR" mode.
F) Quit the programming function via BATL8 digital selector, memorizing the data (the procedure is described in sect. 9.2). The control unit issues 2 beeps.
G) The control unit has now been set up to operate as MASTER for a door with two wings.

13.3.2) HOW TO ADJUST THE SLAVE ACTUATOR

A) Connect BATL8 digital selector to the SLAVE control unit, without forgetting to fit the LOGIC TAST module into connector J8 of the control unit
B) Access the programming mode via BATL8 digital selector (the procedure is explained in sect. 9.2) and go to dipswitch S2 (see sect. 7).
C) Set dipswitch 6 ON to configure the control unit as the SLAVE.
D) Set dipswitch 7 ON to enable the control unit to operate in the "DOUBLE-WING DOOR" mode.
E) Quit the programming function via BATL8 digital selector, memorizing the data (the procedure is described in sect. 9.2). The control unit issues 2 beeps.
F) The control unit has now been set up to operate as SLAVE for a door with two wings.

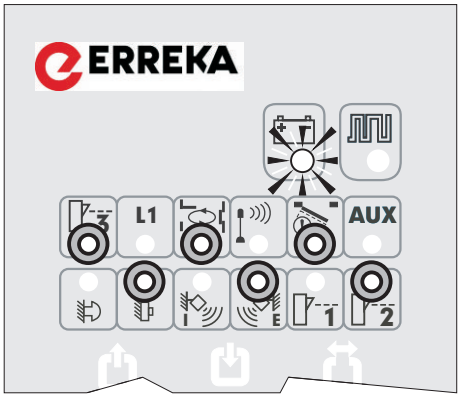
13.3.3) HOW TO CHECK THE WAY THE DOOR OPERATES

- After having powered the two actuators, select the required function with the dipswitches and adjust the potentiometers as described in sect. 6, 7 and 8. Remember that some of the settings must only be made on the MASTER control unit while others must be made on both the MASTER and SLAVE.

Carefully consult the TABLE in sect. 16, which shows, for each parameter, whether the adjustment concerns both the control units or just the MASTER.

- If the door wings must be delayed on starting, set potentiometer TM2 (closing speed) of the MASTER control unit to a lower level (about half) than potentiometer TM2 of the SLAVE control unit. However, the MASTER actuator will start closing at a lower speed so that the SLAVE actuator can access the final wing slowing phase without reaching the overlapping point of the wings during its travel. If, during the closing phase, the wings should near each other below the selected delay time owing to sudden friction for example, the direction of the wings would be reversed.
- Lastly choose the required work program with the function selector device used BATL9 mechanical selector, BATL8 digital selector or the simple function selector switch). Remember that this latter must be connected to the MASTER control unit.
- Now check the movement of the door by activating the opening manoeuvre and making sure that all the control and safety parts of the device operate correctly

To change the preset delay between the wings, use BATL8 digital selector and connect it to the MASTER control unit, then access the TECHNICAL MENU (see sect. 19 TECHNICAL MENU) and modify the values in points 13 (wing delay on opening) and 14 (wing delay on closing). The hold time with the door open must only be regulated by potentiometer TM5 of the MASTER control unit.



WARNING:
If BATL8 digital selector displays the following condition, it means that a communication fault has been detected between the MASTER and SLAVE control units. If this happens, check the connections of wiring WR3MS in both control units, check the settings made on dipswitches 6 and 7 of S2 and reset the system.
If BATL8 digital selector is not used, lack of communication between the two control units would be shown by the fact that the MASTER actuator would remain open and the SLAVE closed.

14) PEDESTRIAN OPENING

The pedestrian opening function can only be used for a swing door with two wings. It is therefore essential for the actuators to be set up for operation as a DOUBLE-WING DOOR (see sect.13).
To enable the PEDESTRIAN OPENING function, set dipswitch 4 of S2 ON and select the condition which activates the function by means of dipswitch 3 of S2.

A) DIP 3 S2 DIP 4 S2
OFF ON

Choose on the program selector to enable the PEDESTRIAN OPENING function.

- The status loses its original free door function in this condition.

B) DIP 3 S2 DIP 4 S2
ON ON

Choose on the program selector to enable the pedestrian opening FUNCTION.
The status loses its original mìnight lock function in this condition.

In both case A) and B), activation of an internal or esternal RADAR input partially opens the door, i.e. the sole wing controlled by the MASTER actuator (pedestrian wing), while the START or EMERGENCY inputs open both MASTER and SLAVE wings.
manual pushing with the push & go function only opens the pedestrian wing.

15) INTERLOCK SYSTEM

The interlock system is used when two automatic doors must open one at a time, so they must not move together.
The system can operate when there are two automatic swing doors, mod. BATL1, or a BATS1 automatic swing door and a sliding door.

15.1) INTERLOCK SYSTEM WITH TWO Erreka SWING DOORS

WARNING!!

In order to allow the INTERLOCK operation, the function switch placed on the side of the automatism must be cut off by disconnecting the 3-pole cable from terminals 1 (AUX1), 3 (COMMON) and 4 (AUX2). AUX1 and AUX2 input ports are dedicated to the interlock operation. It is necessary to install one digital selector BATL8 for every operator Erreka to set the functions and to choose the operation program of the doors.
It is not possible to use the mechanical selectors BATL9 and SCN.

15.1.1) ELECTRIC CONNECTION

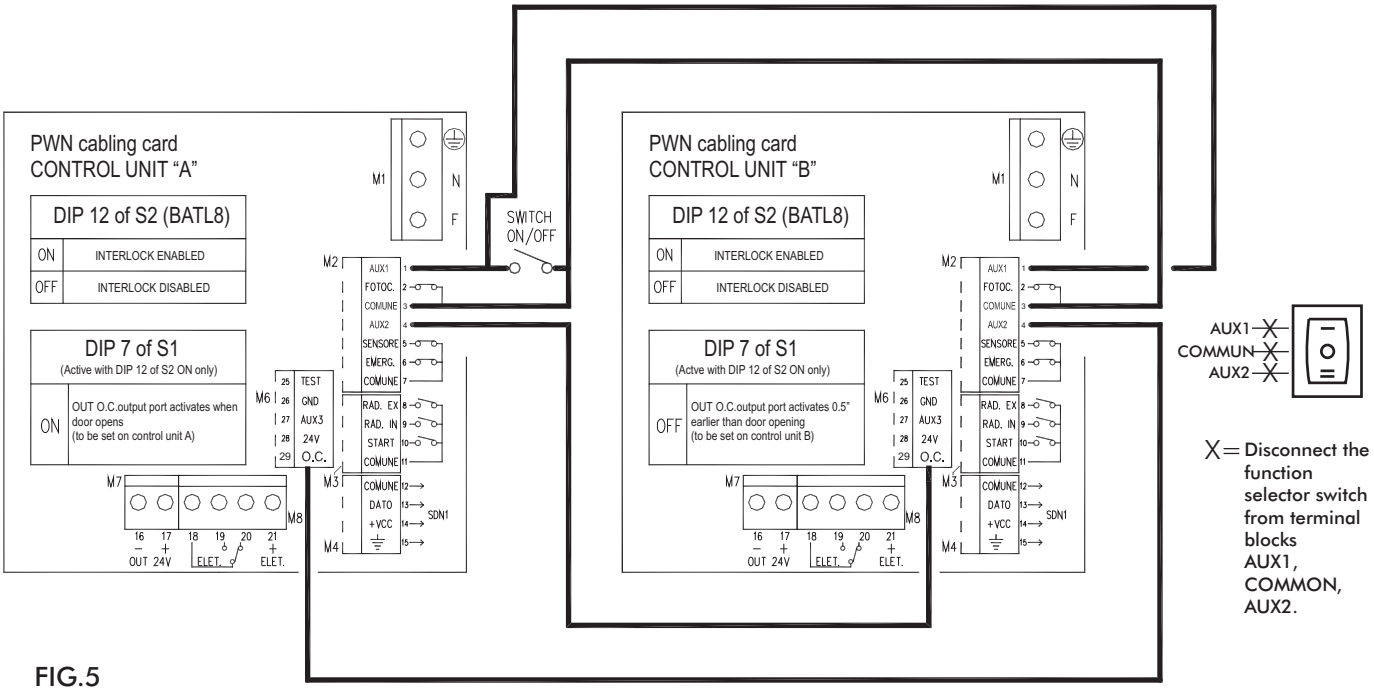

PWN cabling card
CONTROL UNIT "A"
DIP 12 of S2 (BATL8)
ON INTERLOCK ENABLED
OFF INTERLOCK DISABLED
DIP 7 of S1
(Active with DIP 12 of S2 ON only)
ON OUT O.C.output port activates when door opens (to be set on control unit A)
SWITCH ON/OFF
PWN cabling card
CONTROL UNIT "B"
DIP 12 of S2 (BATL8)
ON INTERLOCK ENABLED
OFF INTERLOCK DISABLED
DIP 7 of S1
(Actve with DIP 12 of S2 ON only)
OFF OUT O.C.output port activates 0.5" earlier than door opening (to be set on control unit B)
AUX1
COMMUN
AUX2
X = Disconnect the function selector switch from terminal blocks AUX1, COMMON, AUX2.

FIG.5

The diagram in fig.5 shows the electric connection between two Erreka control units controlling two automatic doors in INTERLOCK configuration.

- Terminal 29 (O.C.) of control unit A must be connected to terminal 4 (AUX2) of control unit B.
- Terminal 29 (O.C.) of control unit B must be connected to terminal 4 (AUX2) of control unit A.
- Terminals 3 (COMMON) of both control units must be connected to each other.
- By connecting a switch (SWITCH ON/OFF) between the terminals 3 (COMMON) and 1 (AUX1) of both control units, it is possible to cut off the INTERLOCK function with a closed contact of the switch and to re-enable the function with open contact. The use of this switch is optional, it is used only if there is the need to cut off temporarily the interlock detection and to allow the free passage between the two doors.

WARNING!!
In case of two-wing BATL1/BATS1 door, perform the electric connection in fig.5 on the MASTER operator control unit.

15.1.2) INTERLOCK FUNCTION ACTIVATION

a) Set the dip11 of S1ON on both control units by means of digital selector BATL8, so as to enable the choice of the work program of port from digital selector BATL8.
b) Set the dip 12 of S2 to ON in both control units using the digital selector BATL8, in order to enable the interlock function.
c) Set the dip 7 of S1 to ON on control unit A and the same dip to OFF on control unit B, in order to establish which one of the two doors must open first in case they receive an "open" command at the same time. In this case the first one to open is control unit A.

15.1.3) INTERLOCK FUNCTION OPERATING MODE

When the doors are closed, and one of the two control units receives an "open" command, the control unit seeks the enabling to open on its AUX2 input port and, at the same time, sends to the second control unit the lock signal through the OUT O.C. output port, then opens the door.
The second door remains locked closed and cannot open until the fist door ends the closing movement.
The warning lamp of digital selector BATL8 remains on until the door remains closed and goes out only when the door is enabled to open.
The START input port at terminal 10 can be used by both control units for the common connection of a presence detector (radar, pressure sensitive mat, etc...) placed inside, between the two doors.
During the closing movement of the first door and for 5 seconds from the end of it, the detection on the START input port is ignored by its own control unit in order to allow the moving door to close completely and to allow the opening of the second door immediately after.
With the interlock input port engaged at terminal AUX2, it is possible to open the door anyway by activating the EMERGENCY input port at terminal 6.
If the switch (SWITCH ON/OFF) is present on AUX1 input port at terminal 1, it is possible, by closing the switch contact, to cut off the interlock function and to allow the free passage between the two doors.
The re-opening of the switch contact restores the operating mode with interlock.

16) LIST OF PARAMETERS TO SELECT FOR THE CONTROL UNITS

The following table shows for each parameter if the relevant adjusting involves the MASTER operator only or the SLAVE operator as well.

PARAMETERS		
DIP-SWITCH S1	**MASTER**	**SLAVE**
DIP 1 = PUSH & GO	●	●
DIP 2 = WIND STOP	●	●
DIP 3 = CYCLIC FUNCTION (repeated opening and closing)	●	
DIP 4 = ELECTRO-LOCK OPERATING MODE	●	●
DIP 5 = CLOSING BY SPRING AND MOTOR (BATL1/BATS1 models)	●	●
DIP 6 = INITIAL SET-UP	●	●
DIP 7 = DOOR OPEN/NIGHT LOCK (with function selector switch on II)	●	
DIP 8 = COURTESY MODE FOR THE DISABLEDI	●	
DIP 9 = 10 sec OPENING WITH "NIGHT LOCK" WORK PROGRAM	●	
DIP 10 = AUTOMATIC INCREASE OF THE HOLD TIME	●	
DIP 11 = SELECTION OF THE FUNCTION SELECTOR DEVICE	●	
DIP 12 = ADJUSTMENT OF FUNCTIONS & POTENTIOMETERS VIA BATL8 DIGITAL SELECTOR	●	●

DIP-SWITCH S2	MASTER	SLAVE
DIP 1 = STEPPING MODE	●	
DIP 2 = ELECTRO-LOCK RELEASE IN FREE DOOR MODE	●	●
DIP 3 = PEDESTRIAN OPENING WITH FREE DOOR (OFF)/NIGHT LOCK (ON)	●	
DIP 4 = PEDESTRIAN OPENING FUNCTION	●	
DIP 5 = WING DELAY ON STARTING	●	
DIP 6 = MASTER/SLAVE CONTROL UNIT SET-UP	●	●
DIP 7 = "DOUBLE-WING DOOR " OPERATING MODE	●	●
DIP 8 = TEST FOR SAFETY PHOTOCELL WHILE CLOSING	●	●
DIP 9 = TEST FOR SAFETY PHOTOCELL WHILE OPENING	●	●
DIP 10 = OPERATION OF THE RADAR INPUTS	●	
DIP 11 = RESETTING OF TECHNICAL MENU DEFAULT VALUES (see TECHNICAL MENU)	●	●
DIP 12 = INTERLOCK FUNCTION	●	

POTENTIOMETERS	MASTER	SLAVE
TM1 = O0PENING SPEED	●	●
TM2 = CLOSING SPEED	●	●
TM3 = OPENING SAFETY SENSOR CUT-OUT DISTANCE	●	●
TM4 = PUSHING POWER LIMITATION	●	●
TM5 = HOLD TIME	●	
TM6 = UPKEEP VOLTAGE ON CLOSING	●	●
TM7 = WIND STOP FORCE INTENSITY	●	●
TM8 = PUSH & GO ACTIVATION DISTANCE	●	●
TM9 = INTENSITY OF FINAL CLOSING PUSH TO LINK ELECTRO-LOCK	●	●
TM10 = POWER OF CLOSING STROKE FOR RELEASING ELECTRO-LOCK	●	●

TECHNICAL MENU		
PARAMETERS	**MASTER**	**SLAVE**
1) PUSHING FORCE AT THE BEGINNING OF THE CLOSING MANOEUVRE (with spring closing in BATL1/BATS1 models)	●	●
2) PUSH & CLOSE ACTIVATION DISTANCE	●	●
3) ACCELERATION STEP-UP WHILE OPENING	●	●
4) DELAY AT OPENING START AFTER ACTIVATION OF ELECTRIC LOCK	●	
5) END OF TRAVEL DISTANCE ON OPENING	●	●
6) MOTOR THRUST DISTANCE AT CLOSING END (in BATL1/BATS1 models)	●	●
7) PUSHING POWER AT END OF CLOSING MANOEUVRE	●	●
8) ASSISTED MANUAL OPENING SENSITIVITY (in BATL1/BATS1 models)	●	●
9) PUSHING TIME AT END OF CLOSING MANOEUVRE	●	●
10) SLOWING DISTANCE ON OPENING	●	●
11) SLOWING DISTANCE ON CLOSING	●	●
12) WINF STOP FORCE INTENSITY ON OPENING	●	●
13) WING DELAY ON START-UP IN OPENING PHASE	●	
14) WING DELAY ON START-UP IN CLOSING PHASE	●	

17) MEANINGS OF THE BUZZER SIGNALS (BEEPS)

5 BEEPS = control unit without initial set-up (press START with function selector switch in 0 position)
long BEEP = control unit without initial set-up (keeping START depressed with function selector switch on I or II)
6 BEEPS = ENCODER not operating or disconnected
1 BEEP = programming procedure accessed via BATL8 digital selector
1 BEEP = programming procedure quitted via BATL8 digital selector **without** memorizing the data
2 BEEPS = programming procedure quitted via BATL8 digital selector **with** data memorized
1 long BEEP (5") = initial set-up terminated.
SERIES of close beeps = insufficient thrust power (check calibration of TM4)
2 BEEPS = excessive effort of motor, beyond the available power, or disconnected motor.

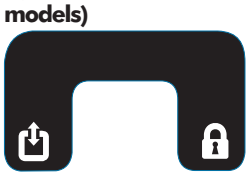
18) TECHNICAL SPECIFICATIONS

POWER SUPPLY	115/230Vac +/- 10%, 50-60 Hz
POWER OUTPUT	BAT S1 50w BAT L1 75w
POWER SUPPLY OF EXTERNAL ACCESSORIES	24Volt dc
MAXIMUM WEIGHT OF DOOR WING	BAT S1 120Kg BAT L1 250Kg
WORK TYPOLOGY	Intensive use
OPERATOR DIMENSIONS	550x120x110mm
WORKING TEMPERATURE	-20°C / +50°C
ELECTRIC MOTOR	24Volt dc With Encoder
PROTECTION DEGREE	IP32

19) ADVANCED FUNCTIONS - TECHNICAL MENU

The adjustments in the technical menu allow you to change the various door operating parameters.This is of use when the default settings are not the optimal ones.
BATL8 digital selector must be available for access to the TECHNICAL MENU.
enter the program from BATL8 digital selector, turn the key to the horizontal **function locking** position, press the two keys and F1, and keep them depressed, then turn the key back to the vertical **work position.**
The yellow leds will come on in sequence from left to right, showing that data are being loaded. After this, the red battery led and the yellow led of photocell 3 will come on.
BATL8 digital selector will now be operating on dip-switch 1 of switch S1, thus in the adjustment phase described in section 6.
Press the **SET** key 11 times to go to the end of the basic regulazione described in sect. 8 of the main instructions, i.e. the closing stroke strength (TM10).
This situation coincides with the beginning of the TECHNICAL MENU;
Press the SET button once to access the point 1 adjustment option:
simularly to the previous adjustments, the yellow leds form a scale that indicates the value entered.
Press the key to decrease or the F1 key to increase this value.

1) PUSHING FORCE AT THE BEGINNING OF THE CLOSING MANOEUVRE (with only spring closing in BATL1-BATS-1 models)



This is the pushing force at the beginning of the closing manoeuvre that helps the door to start moving when the force of the spring alone is unable to provide sufficient force on start-up.
Increase the value to obtain a higher pushing power.

Press the SET key to access the point 2 adjustment option.

2) PUSH & CLOSE ACTIVATION DISTANCE FROM OPEN DOOR

With open door the closing can be started with a manual push on the leaf in the closing direction. At the minimum value, the PUSH & CLOSE function is excluded, by increasing the value a higher PUSH & CLOSE distance is got proportionally. At the maximum value a displacement of 20° approx. is required to close the door.

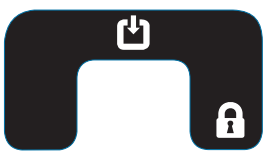
Press the SET key to access the point 3 adjustment option.

3) ACCELERATION STEP-UP WHILE OPENING

It is the door acceleration thrust while opening.
By increasing the value a quicker acceleration is achieved.

Press the SET key to access the point 4 adjustment option.

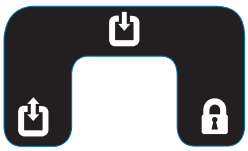
4) DELAY AT OPENING START AFTER ACTIVATION OF ELECTRIC LOCK



For enable this function potentiometer TM10 (power of stroke of 05" while closing) must not be set to the minimum value.
This parameter introduces a door start delay while opening after the activation of the electric lock.
If the value is increased a longer delay is got, max. 4 seconds.

Press the SET key to access the point 5 adjustment option.

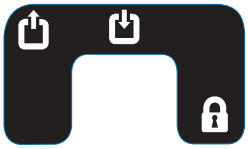
5) END OF TRAVEL DISTANCE ON OPENING



This is the distance between end of travel on opening and the final resting point.
Increase the value to increase the distance.

Press the SET key to access the point 6 adjustment option.

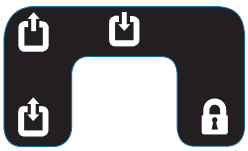
6) MOTOR THRUST DISTANCE AT CLOSING CYCLE END (only with spring closing in BATL1-BATS-1 models)



It is the distance of the closing ledge in which the motor thrust is in function, it is useful to help the completion of the closing operation. At minimum value the motor thrust is excluded, by increasing the value the distance increases proportionally, until achieving the whole closing travel at maximum value.
The intensity of the motor thrust depends on the value set as per next paragraph 7.

Press the SET key to access the point 7 adjustment option.

7) THRUST POWER AT CLOSING OPERATION END



This is the pushing power in the last section of the closing phase. It is useful for preventing friction in the lock from being detected as an obstruction and preventing the manoeuvre from being completed.
Increase the value to obtain a higher power.

Press the SET key to access the point 8 adjustment option.

8) ASSISTED MANUAL OPENING (only in BATL1-BATS-1 models with spring)

It is the sensitivity level at manual opening, required to open the door without feeling the opposition of the spring force. At minimum value the assisted opening function is excluded, by increasing the value the level of lightness during the manual push of the door while opening increases proportionally.

Press the SET key to access the point 9 adjustment option.

9) THRUST TIME AT CLOSING OPERATION END

This is the time for which the motor continues to push in the last closing section. It helps the door to reach its fully closed position by overcoming any friction.
Increase the value to lengthen the time.

Press the SET key to access the point 10 adjustment option.

10) SLOWING DISTANCE ON OPENING

This is the distance from the end of opening travel in which the door proceeds at a slower speed.
Increase the value to increase the distance.

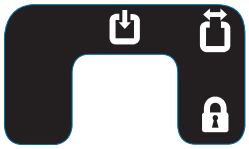
Press the SET key to access the point 11 adjustment option.

11) SLOWING DISTANCE ON CLOSING

This is the distance from the end of closing travel in which the door proceeds at a slower speed.
Increase the value to increase the distance.

Press the SET key to access the point 12 adjustment option.

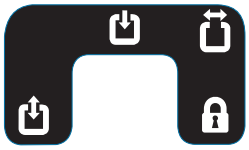
12)WIND STOP FORCE INTENSITY ON OPENING



Helps to keep the device in the "door open" status, preventing the wind or other causes from closing accidentally.
Increase the value to obtain a stronger force.

Press the SET key to access the point 13 adjustment option.

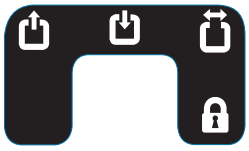
13) WING DELAY ON OPENING



This parameter can only be adjusted after the "DOUBLE-WING DOOR" (dip 7 of dip-switch S2 ON) and "WING DELAY ACTIVATED" (dip 5 of dip-switch S2 ON) operating modes have been selected.
This adjustment must only be made on the main MASTER control unit (dip 6 of dip-switch S2 OFF). It is the SLAVE actuator's delay on opening in relation to the MASTER actuator and is required if the wings overlap when they are closed.
Increase the value to obtain a longer delay on starting while opening.

Press the SET key to access the point 14 adjustment option.

14) WING DELAY ON CLOSING



This parameter can only be adjusted after the "DOUBLE-WING DOOR" (dip 7 of dip-switch S2 ON) and "WING DELAY ACTIVATED" (dip 5 of dip-switch S2 ON) operating modes have been selected.
This adjustment must only be made on the main MASTER control unit (dip 6 of dip-switch S2 OFF). It is the MASTER actuator's delay on closing in relation to the SLAVE actuator and is required if the wings overlap when they are closed.
Increase the value to obtain a longer delay on starting while closing.

The adjustments that can be made via the technical menu have now terminated. The programming phase can thus be quitted and the data memorized in the following way:
A) turn the key to the horizontal **blocked position;**
B) press the **SET** key and keep it depressed;
C) turn the key back to the vertical position and release SET;
D) the yellow leds will flash from right to left to indicate that the data are being downloaded;
E) at the end of this process, the control unit will issue 2 beeps to indicate that the data are being memorized.

If you do not wish to memorize the changes, quit the programming status by simply turnign the key of the BATL8 selector horizontally and move it back to the vertical position. The control unit will issue one single beep to show that the previous settings have not been changed.

IMPORTANT!
If the door fails to operate in the desired way after any one of the parameters in the TECHNICAL MENU has been changed and you wish to retunr to the original operating mode, proceed as described below:
A) access the programming mode by means of BATL8 selector:

B) set dip-switch 11 of switch S2 to the on position, following the procedure described in sect. 9.2;

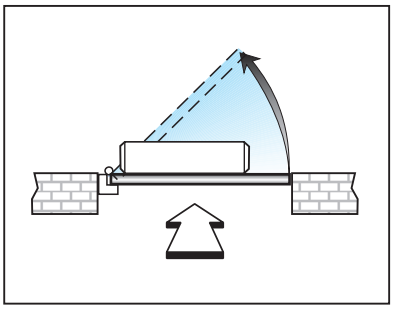
C) quit the programming mode and memorize the data. The control unit will issue 2 beeps to indicate that the default values have been activated again.

20) INSTALLATION TYPES

Below there are some examples of possible situations that could occur in the installations with some practical advise for the correct use of the automatic mechanism.

20.1) EXTERNAL PEDESTRIAN DOOR THAT OPENS INWARDLY WHEN SUBJECTED TO WIND FORCE

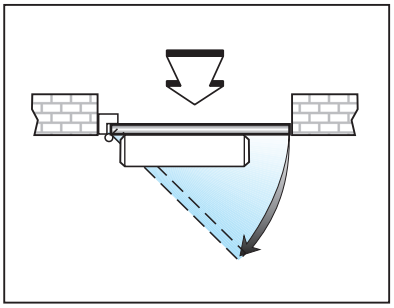
In this case, the operator is connected to the door through the pull sliding arm.



a) in BATL1/BATS1 connections, it is recommended to set S1 dip 5 to ON in order to enable the thrust of the engine in addition to that of the spring to obtain greater force during the closure phase.
b) if there is not an electric lock, enable the WIND STOP function with the door closed by setting S1 dip 2 to ON. If the default intensity of the WIND STOP force is insufficient, adjust it using the digital selector BATL8 (potentiometer TM7).
c) adjust the power limitation potentiometer TM4 for the maximum value.
d) to help with the final approach of the door to the closure stop, the POWER and TIME of THRUST AT THE END OF THE CLOSING MANOEUVRE can be increased using the digital selector BATL8, in sections 7 and 9 of the TECHNICAL MENU advanced functions.
e) it is preferable to control opening through the sensors, as the push and go function would be difficult as it is in opposition of the WIND STOP force.

20.2) EXTERNAL PEDESTRIAN DOOR THAT OPENS OUTWARDLY WHEN SUBJECTED TO WIND FORCE

In this case, the operator is connected to the door through articulated thrust arm.



a) for BATL1/BATS1 connections, it is recommended to load the spring at a minimum value (inserting the arm in the operator with the door completely open) to reduce the opposition force of the spring to a minimum while opening.
b) adjust the power limitation potentiometer TM4 for the maximum value.
c) if, in the BATL1 and BATS1 versions, the spring's reclosing force is insufficient, set S1 dip 5 to ON in order to enable the engine thrust during the closing phase.
d) to obtain a greater opening speed, increase the value of potentiometer TM1.
e) to help maintain the door in an open position in the work program DOOR ALWAYS OPEN, it may be useful to increase the value of INTENSITY OF THE OPENING WIND STOP FORCE using the digital selector BATL8, in section 12 of the TECHNICAL MENU advanced functions.

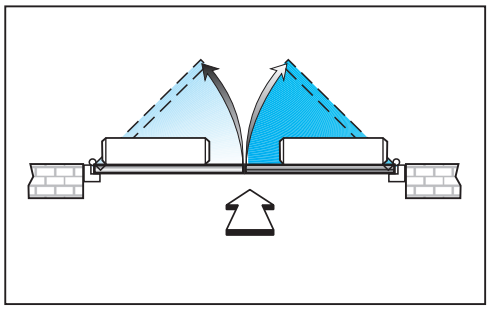
20.3) OPERATION WITH AN ELECTRIC LOCK

In this case, S1 dip 4 must be set to ON.

a) use a 24V electric lock, as a 24V output is available on the operator, in case of a 12V electric lock, connect the electric lock in series to a power resistance from 2 O 5W (not supplied).
b) keep in mind that the electric lock output to terminals 18-19 is only a potential free contact of the control relay, therefore take the power supply voltage for the electric lock from terminals 16-21.
c) to help the clasping of the electric lock, there is a final thrust in the last section of the closing manoeuvre. If the final thrust intensity is insufficient or excessive, it can be precisely adjusted using the digital selector BATL8 (potentiometer TM9).
d) If a brief closing blow prior to the opening manoeuvre must be enabled in order to favour the release of the electric lock, adjust the value of potentiometer TM10 using the digital selector BATL8.
e) the automatic release function of the electric lock can be activated at the end of each closure to prepare the door to be opened with the next manual push; enable the function using the digital selector BATL8 (S2 dip 2 ON) as described in paragraph 11.

20.4) DOUBLE DOOR OPERATION

In this case, the doors work in a MASTER/SLAVE configuration, therefore the two operators must be connected together by the wiring model WR3MS and the S2 dips 6-7 must be properly configured.
Read paragraph 13 carefully where the steps of the procedure to follow are described.
Some suggestions are provided below:



a) Be aware that the MASTER operator must be applied to the swinging door, that is, the one that closes last.
b) In case of an overlapping door, S1 dip 5 ON delays the door when starting, both when opening as well as when closing.
If the standard settings do not correspond to the ideal calibration, change the delays of the doors using the digital selector BATL8 that is connected to the MASTER control unit (sections 13 and 14 of the TECHNICAL MENU advanced functions).
c) If for various reasons (spring load intensity different between the two operators, different weights between the two doors, etc.) while closing, the doors should approach each other too much, risking to reopen, it is recommended to calibrate the MASTER potentiometer TM2 (closing speed) at a lower level in comparison to the SLAVE's potentiometer TM2.
Additionally, in the BATL1 and BATS1 models, the POWER and DISTANCE of THRUST AT THE START OF THE CLOSING MANOEUVRE can only be increased in the SLAVE operator in order to provide a greater initial thrust to the door that should move first.
d) If you want to arrange for pedestrian opening only on one door, set this function using the digital selector BATL8 (S2 dips 3-4) as described in paragraph 14.

21) SENSOR TEST

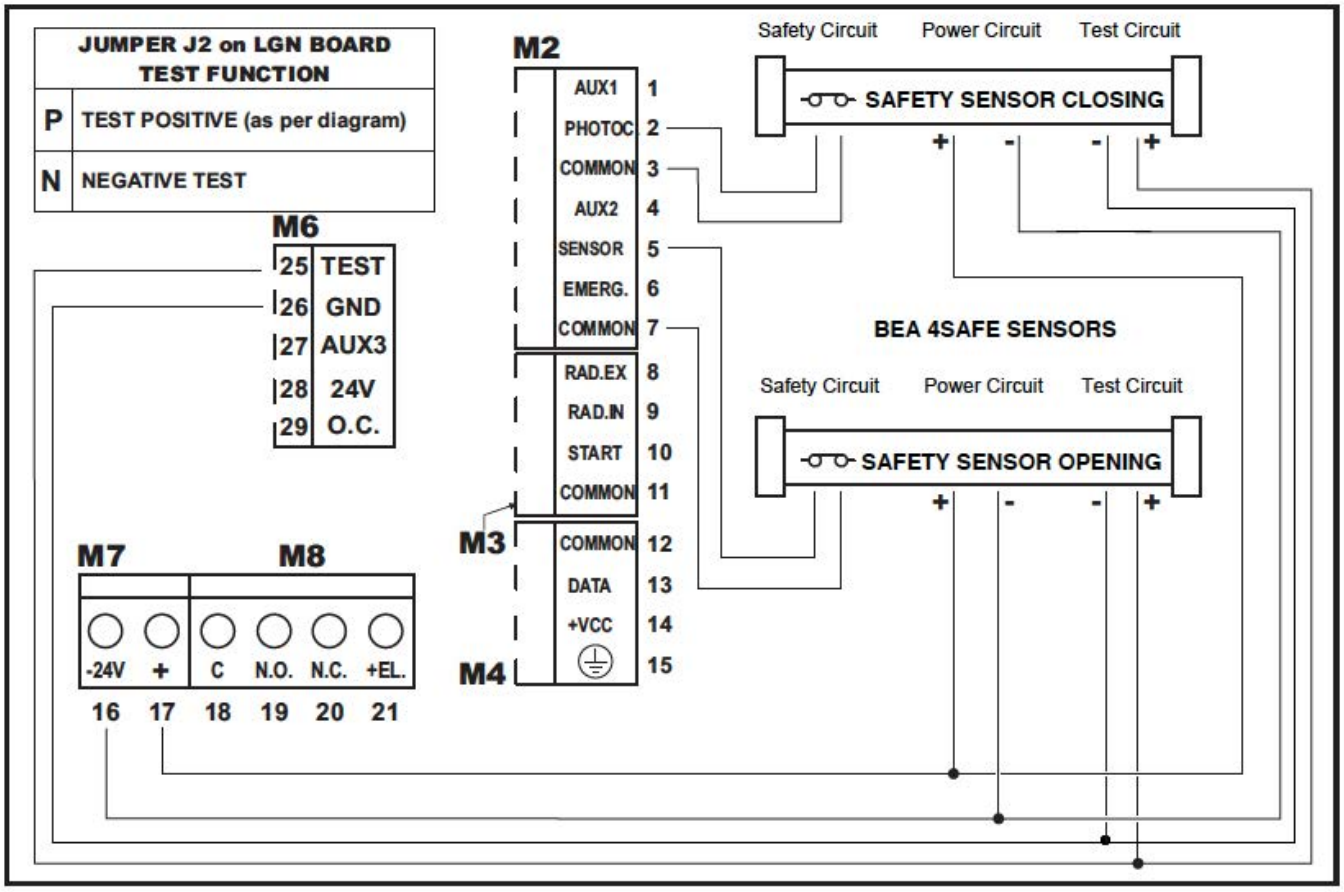
The Erreka operator control unit is pre-arranged to monitor the correct operation of the safety sensors.

WARNING!!

Start the TEST function only if use is made of sensors pre-arranged for monitoring.

CONNECTION DIAGRAM FOR SENSORS WITH MONITORING TEST

The diagram shows the connection on Erreka operator of two BEA 4SAFE Sensors for the detection of presence while opening and closing.



WIRING CONNECTION SENSOR 4SAFE ON SW			WIRING CONNECTION NEPTIS OPERATOR
Wiring between the sensor and the terminal block of the PWN-T board on Neptis operator			
1. GREEN	(+)	Supply power	TERMINAL 17 (+)
2. BROWN	(-)	Supply power	TERMINAL 16 (-)
3. YELLOW	COM	(Opening side)	TERMINAL 7 COM
4. WHITE	N.C.	(Opening side)	TERMINAL 5 Safety sensor in opening
5. BLACK	N.O.	(Opening side) do not connect	
6. PINK	COM	(Closing side)	TERMINAL 3 COM
7. VIOLET	N.C.	(Closing side)	TERMINAL 2 Safety sensor in closing
8. GREY	N.O.	(Closing side) do not connect	
9. RED	(+)	Test input	TERMINAL 25 TEST (+)
10. BLUE	(-)	Test input	TERMINAL 26 GND (-)

DIP SWITCH SETTING ON 4SAFE ON SW

DIP 1 = ON Sensor installed opening side

DIP 1 = OFF Sensor installed closing side

For other option and settings available on the safety sensor, see the instructions supplied with the sensor 4SAFE ON SW.

PARAMETERS ON DIGITAL PROGRAMMER L8

DIP 9 S2 ON For safety sensor in opening

DIP 8 S2 ON For safety sensor in closing

SETTING ON THE LGN BOARD

Jumper J2 = position **P**

22 - PROBLEMS, CAUSES and SOLUTIONS

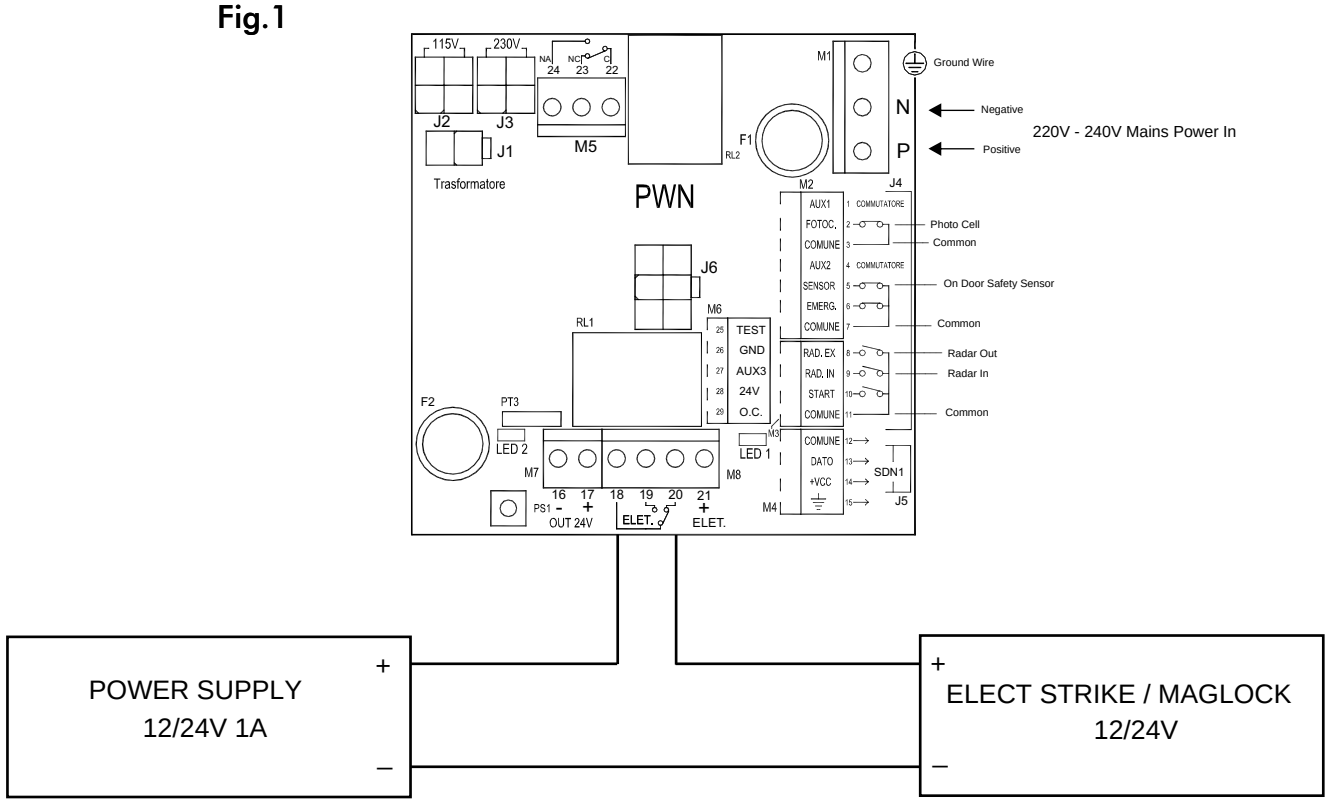
WARNING! It is recommended to always use the digital selector BATL8 complete with the LOGIC TAST module at each operation on the automatic door to view the status of the inputs and to access the technical menu's supplementary and advanced adjustments.

PROBLEM	PROBABLE CAUSE	SOLUTION
The control unit emits 5 beeps and the door does not move with the function selection switch set to “0”, or it emits a long beep with the function selection switch set to I and II.	The initialisation procedure was not carried out on the control unit (initial setup).	Carry out the initial setup procedure as described in paragraph 4 of the Installation Manual.
During the initial setup procedure, it is difficult for the engine to move and the control unit emits 2 beeps.	The function selection switch is set to “O”.	Fix the door frame and check that the door moves without problems along the entire stroke.
At the conclusion of the initial setup, the door does not move.	Il commutatore di scelta funzioni si trova in posizione “O”.	Move the function selection switch to “I”.
The door moves in the opposite direction, instead of opening it closes.	The operator was installed opposite to the opening direction. Check the opening direction shown by the arrow near the central pin.	Lift the arm, remove the operator, turn it 180° and reinstall it. Proceed then with a new initial setup.
The control unit does not respond to the commands of the digital selector BATL8.	The LOGIC TAST module was not inserted.	Insert the LOGIC TAST module in the LGN card connector.
	The operation with the digital selector BATL8 was not enabled.	Set S1 dip 11 to ON in the digital selector BATL8 to activate the selection of the work program from BATL8.
The LGN control unit does not respond to the variation of the S1 dip switch and of the potentiometers from TM1 to TM5.	S1 dip 12 is ON (adjustments from the digital selector BATL8).	Carry out the wanted changes using the digital selector BATL8, or set S1 dip 12 to OFF, carry out a complete opening/closing cycle and make adjustments directly on the control unit.
The door opens but does not reclose.	The radar or the photocells detect a presence.	Check that the radar or photocells are not engaged or do not detect a moving door (incorrect radar position).
The door opens for a brief stretch, then stops and emits 6 beeps.	The encoder connector is disconnected or the encoder is damaged.	Check the insertion of the encoder's 4 pole connector and that the DL1 and DL2 leds turn on on board the LGN control unit by manually moving the door.
The door stops during the stroke and reverses the direction of movement.	The door detects an obstacle during its stroke.	Identify the obstacle or the door frame friction and remove it.
The door moves with difficulty, the buzzer emits intermittent sounds and the BATL8 selector L1 warning light turns on.	The motor thrust power is insufficient.	Increase the value of potentiometer TM4.
	The powered door is larger and heavier than the operator limits.	Check the technical drawings in paragraph 7 related to the installation measurements and limits of use indicated by the charts.
The door does not open completely.	The opening safety sensor detects an obstacle.	Remove the obstacle, or if it reads the wall or an object in a fixed position increase the value of the TM3 potentiometer so the detection in the final phase of the opening stroke is excluded.
The electric lock does not work.	The S1 dip 4 is set to OFF.	Set S1 dip 4 to ON.
	The electric connection to the electric lock is not correct.	Consult the paragraph 1 “Electric connections” and check.
One door of a double door does not function correctly, only the MASTER opens and the digital selector BATL8 displays 6 yellow warning lights turned on.	The control units are not configured correctly.	On the MASTER, set S2 dip 6 to OFF and S2 dip 7 to ON and on the SLAVE set S2 dips 6 and 7 to the ON
	The WR3MS connection cable was not inserted.	Check the presence and efficiency of the WR3MS wiring.
The reclosing spring is released (for BATL1 and BATS1 versions).	The arm was released without having first blocked the pulley with the specific screw.	Reload the spring by following the steps described in paragraph 3 of the installation manual, in order to have the red signs located both on the belt as well as on the pulley coincide.
The control unit gives off a beep sound and the door opens slowly.	Dip 9 on S2 is ON and the test on the safety photocell while opening has failed.	If the safety sensor while opening is not pre-arranged for the TEST function, set dip 9 on S2 to OFF. Otherwise, if it is pre-arranged for TEST function, it could be faulty or connected in a wrong way.
The control unit gives off a beep sound and the door closes slowly.	Dip 8 on S2 is ON and the test on the safety photocell while closing has failed.	If the safety photocell while closing is not pre-arranged for the TEST function, set DIP 8 on S2 to OFF. Otherwise, if it is pre-arranged for TEST function, it could be faulty or connected in a wrong way.

1) WIRING DETAIL - FAILSAFE ELECTRIC LOCK/STRIKE

(In the event of power failure lock will release)

Fig.1

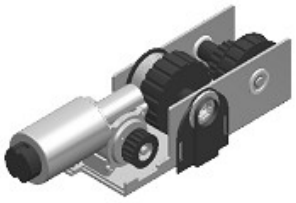
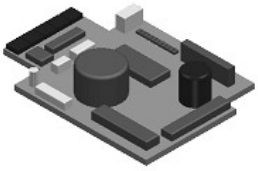
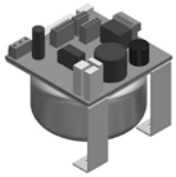
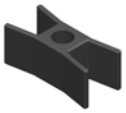


Terminals 18-19-20 = Clean exchange contact of relay RI1 (18 COMMON, 19 N.O., 20 N.C.), that can be used to connect an electro-lock.
Take the power from PSU (-) and (+) in the case of a 24 V electro-lock.

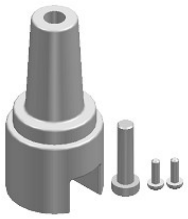
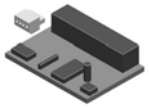
⚠ ADVISORY

It is advised that electrical lock devices are powered from a separate power supply to ensure that an adiquate ampage is supplied.

OPERATORS SPARE PARTS SWING

Nº	Picture	Item	Code
1		Motor BAT L1 / BAT S1	SB010
2		Logic Task Board BAT L1 Logic Task Board BAT S1	SB012 SB022
3		Power Supply BAT L1 Power Supply BAT S1	SB011 SB021
4		Stainless Steel Spring BAT L1 BAT S1	SB040
5		Long Belt	SB037
6		Short Belt	SB038
7		Plastic closing	SB035
8		Sliding arm nylon block	SB039

OPERATORS SPARE PARTS SWING

Nº	Picture	Item	Code
9		Kit sliding arm side cover stoppers BATLS	SB036
10		Conical connection: Enlongation type B (EXTB-Z) Conical connection: Enlongation type C (EXTB-Z)	BATS4 BATS5
*		Special sliding arm (Y:250, Z for max: 220)	BATS7
*		Double leaves cable (Master – Slave)	BATL7
*		Interface Digital Selector (BATL1-BATS1)	SB030

NBS Specification

ADSF BAT S1 swing door operator

ADSF BAT S1 Standard swing door operators are suitable for a wide variety of applications (particularly for external facing entrance doors) including: high volume, retail, trade, hotels, offices, airports, stations, hospitals, schools, colleges, garden centres and leisure facilities. Low energy or fully automatic operation.

All equipment is designed to meet the rigorous safety requirements of BS 7036:1996 and is installed by Automatic Door Suppliers Association (ADSA) accredited engineers.

Standard details for ADSF BAT S1 swing door operator

- Supplier — ADSF UK LTD
- Product reference: — ADSF BAT S1 Swing door operator
- Door configuration: — Single unit or double door leaf set
- Door leaf widths: — 650 - 1400mm single leaf
- Door height: — Up to 3000mm
- Door panel weight: — Up to 120 Kg
- Control: — 4 position key switch (open/close two way & exit only)

Standard details for ADSF BAT S1 swing door operator

As standard

Drive System

- Motor open Spring close
- Housed in 110mm high x 120mm deep x 550mm wide

Operation

- Over head face mounted
- Push arm to open out / Pull slide arm to open in
- Extended pivot available for operators mounted on lintel
- Push and go facility

Options

Safety & Security

- Interfacing with fire alarm via a relay
- Interfacing with BMS, audio/video /intercom entry systems via a relay
- Integration of electric locking facility (possible with optional locking module)
- Interlocking with other door types

TECHNICAL SPECIFICATIONS

POWER SUPPLY	115/230Vac +/- 10%, 50-60 Hz
POWER	50W
POWER SUPPLY OF EXTERNAL ACCESSORIES	24Volt dc
MAXIMUM WEIGHT OF DOOR WING	120Kg
WORK TYPOLOGY	Intensive use
OPERATOR DIMENSIONS	550x120x110mm
WORKING TEMPERATURE	-20°C / +50°C
ELECTRIC MOTOR	24Volt dc With Encoder
PROTECTION DEGREE	IP32

NBS Specification

ADSF BAT L1 Heavy duty swing door operator

ADSF BAT L1 Heavy duty swing door operators are suitable for a wide variety of applications (particularly for external facing entrance doors) including: high volume, retail, trade, hotels, offices, airports, stations, hospitals, schools, colleges, garden centres and leisure facilities. Low energy or fully automatic operation.

All equipment is designed to meet the rigorous safety requirements of BS 7036:1996 and is installed by Automatic Door Suppliers Association (ADSA) accredited engineers.

Standard details for ADSF BAT L1 swing door operator

• Supplier	ADSF UK LTD
• Product reference:	ADSF BAT L1 Swing door operator
• Door configuration:	Single unit or double door leaf set
• Door leaf widths:	650 - 1400mm single leaf
• Door height:	Up to 3000mm
• Door panel weight:	Up to 250 Kg
• Control:	4 position key switch (open/close two way & exit only)

Standard details for ADSF BAT L1 swing door operator

As standard
Drive System

- Motor open Spring close
- Housed in 110mm high x 120mm deep x 550mm wide

Operation

- Over head face mounted
- Push arm to open out / Pull slide arm to open in
- Extended pivot available for operators mounted on lintel
- Push and go facility

Options
Safety & Security

- Interfacing with fire alarm via a relay
- Interfacing with BMS, audio/video /intercom entry systems via a relay
- Integration of electric locking facility (possible with optional locking module)
- Interlocking with other door types

TECHNICAL SPECIFICATIONS

POWER SUPPLY	115/230Vac +/- 10%, 50-60 Hz
POWER	75W
POWER SUPPLY OF EXTERNAL ACCESSORIES	24Volt dc
MAXIMUM WEIGHT OF DOOR WING	250Kg
WORK TYPOLOGY	Intensive use
OPERATOR DIMENSIONS	550x120x110mm
WORKING TEMPERATURE	-20°C / +50°C
ELECTRIC MOTOR	24Volt dc With Encoder
PROTECTION DEGREE	IP32

RETURNS NOTE

Please include this form with any items returned			
CUSTOMER DETAILS			
YOUR REFERENCE:			
ACCOUNT NUMBER:		DATE:	
COMPANY NAME:			
CONTACT NAME:			
ADDRESS:			
POSTCODE:			
TEL:			
FAX:		**E-MAIL:**	

Goods	QUANTITY	INVOICE No.	Replacement Ordered	ACTION NEEDED		Fault Description	Date Purchased
				Credit	Repair		

TERMS AND CONDITIONS

1. Goods will not be accepted back without a valid Returns number.
2. Please ensure the relevant invoice is placed inside the component box with a detailed fault report.
3. Please give as much detail as possible regarding your fault report .Reports like **DEAD** or **FAULTY** will not be accepted.
4. All items including swing operators must be sent back complete, we will not accept individual internal components for repair or replacement.
5. Goods found not to be faulty may incur a testing fee handling charge of £10.00 plus vat.
6. Physically damaged items will be rejected.
7. Items may be replaced with equivalents if originals are not available.
8. These items may be repaired or replaced.
9. Refunds and credit notes are issues at Auto Doors & Shopfronts discretion as point 10 below.
10. Re-stocking:
    * The goods have not been installed.
    * The goods are returned as complete items.
    * All packaging, fixing kits and instructions are as new.
    * A re-stocking charge of 15% will be imposed.

Send to ADSF UK LTD Unit 3 Millers Court, Windmill Road, Kenn, Clevedon BS21 6UL

PLEASE SIGN BELOW TO ACCEPT OUR TERMS AND CONDITIONS

Registered Office: 20 –22 Bedford Row, London WC1R 4JS. Registration No. 5287944 VAT No. 811346 362

MAINTENANCE PROGRAM

Maintenance program for swing door ADSF Erreka.

Each 6 month:

Warning!
Before work on the operator cut main power line.

- Check that all securing screws are well tightened.
- Clean and lubricate moving and sliding components.
- Lubricate closing spring if present.
- Check wiring connections.
- Check that arm connection screw are well tightened.
- Check that the door wing is stable and that the movement is fluent and with no friction from "door open" position up to "door closed" position.
- Check the condition of the hinges and lubricate it.
- Check that speeds, timing, and safety functions are well adjust.
- Check that safety and activation sensor are properly functioning.

Warning!
Any part that appear damaged or worn must be changed.

Make use only of original spare parts; for this purpose check price list.

Check that the doors are compliant to BS EN16005

BS7036 Part 2 1996 - Authorized Technician Checklist

Company Name & Address	Installer Name

Site Address		
	Date	
	Job No	
	Door Location	
	Door Type	

General Times (s)		
Opening Time	Closing Time	Hold Open Time

Activation Distances (mm)	
Straight Approach	Straight Approach

Closing Energies		
Check Speed (J)	Max Speed (J)	Entrapment (N)

Drawing-In Protection	
Safety Barrier Y/N	Finger Guards Y/N

Safety Devices			
Photocells Y/N	Photocell Height (mm)	Presence Sensor	On Door Safety Sensors

Escape System			
Break Out Doors Y/N	Break Out Force (N)	Battery Back-Up	Battery Settings (F-O / CONT)

Engineers Notes

Signage Affixed / Left on Site

Technician Name	
Technician Signature	
Date & Time	

LOG BOOK

Company Name & Address	Installer Name

Site Address	Install Date	
	Unit ID No	
	Door Location	

Operators Installed

Activation Devices			
Sensor	Push Pad	Keyfob	Access Control

Safety Devices			
Threshold Sensor	Side Screen Sensor	On Door Sensor	Barriers

Escape System			
Break Out Doors Y/N	Break Out Force (N)	Battery Back-Up	Battery Settings (F-O / CONT)

Repair / Maintenance History

Date	Works Carried Out	Name	Signature

LOG BOOK

Repair / Maintenance History

Date	Works Carried Out	Name	Signature